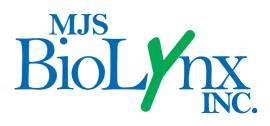


Photo courtesy of Jamie Harron jharron_thewildwood@hotmail.com



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CHROMATOGRAPHY



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Bio-Protein Columns are now available from Chromatographic Specialties Inc.

The range of Bio-Protein columns has increased to provide chromatographers with more options for successfully separating and analyzing proteins, peptides, antibodies, oligonucleotides and other biomolecules.

AGILENT TECHNOLOGIES BioHPLC COLUMNS

Bio SEC-3 and Bio SEC-5 HPLC Columns

- · High efficiency and high resolution size-based separations of biomolecules
- Bio SEC-3 columns are packed with 3µm porous silica particles coated with a hydrophilic layer to maximize separation efficiency and resolution
- Bio SEC-5 columns are packed with 5µm silica particles coated with a neutral hydrophilic layer that decreases secondary interactions

Bio IEX HPLC columns

- High resolution charge-based analytical separations of proteins, peptides, oligonucleotides and other biomolecules
- · Packed with polymeric, non-porous particles coated with a hydrophilic layer that eliminates most non-specific interactions
- · Multiple ion exchange groups are attached at each bonding site to increase capacity and selectivity

BioMAb Columns

- · Specifically designed for high-resolution monoclonal antibody (MAb) separations
- Packed with polymeric, non-porous, weak cation exchange particles surrounded by a hydrophilic coating, which offers unique selectivity for antibodies and eliminates most non-specific interactions

YMC Bio-PRO IEX COLUMNS

- · Designed for separating proteins and peptides
- Based on a newly developed hydrophilic polymer with low nonspecific absorption
- Available in QA (quaternary ammonium) and SP (sulfopropyl) chemistries on 5 µm porous and non-porous hydrophilic polymer beads packed in biocompatible PEEK column housings

RESTEK VIVA WIDE PORE HPLC COLUMNS

- Largest available surface area in 250-350Å pores for maximum retention and resolution of proteins, peptides and other larger biomolecules
- Excellent PEGylation reaction monitoring
- Highly base-deactivated wide pore packing exhibits excellent peak shape for a wide range of compounds in normal phase separations



- · A fast and accurate system designed for the quantification of proteins
- The Start System can also be upgraded with an autosampler for high sample throughput
- Bioline high resolution glass columns offer pressure stability up to 100 bar and a thermostatic jacket for temperatures between 0°C and 60°C, making them suitable for a wide range of biochromatography applications



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— Authorized Distributor

CELL SEPARATION

XIS-SHIELD

AXIS-SHIELD DENSITY GRADIENT MEDIA

Axis-Shield, distributed by Greiner Bio-One Inc., offers a wide range of ionic, polysaccharide-based and non-ionic, iodinated density gradient media. The media are produced in compliance with cGMP for use in the separation of cells, organelles, membrane vesicles, viruses, proteins, nucleic acids, and lipoproteins.

AXIS-SHIELD LYMPHOPREP[™]

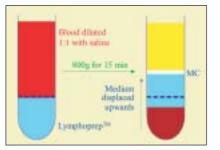
Isolation of human mononuclear cells

Almost all mononuclear cells have densities below 1.077 g/mL. These cells can thus be isolated by centrifugation on an isotonic medium with a density close to 1.077 g/mL. Lymphoprep[™] is a ready-made, sterile, endotoxin tested solution for isolating human mononuclear cells.

Lymphoprep[™] can be used for the preparation of pure lymphocyte suspensions for tissue typing, antilymphocyte sera and immunological research.

- · Maximum yield and recovery when blood sample diluted
- 1:1 with saline
- Sodium diatrizoate 9.1% (w/v)
- Polysaccharide 5.7% (w/v)

- Density 1.077 ± 0.001 g/mL
- Osmolality 290 ±15 mOsm
- Endotoxins <1.0 EU/mL
- Lymphoprep[™] is also available in a pre-filled sterile plastic tube. The Lymphoprep[™] Tube consists of two compartments separated by a plastic insert. This insert allows the blood sample to be poured directly into the tube and diluted with physiological saline. Once the tube has been centrifuged under specified conditions, a distinct layer of mononuclear cells is found in the upper compartment.



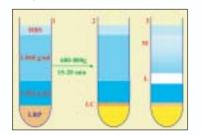
AXIS-SHIELD OPTIPREP[™]

An all purpose density gradient media

OptiPrepTM is the trademark name of a sterile, endotoxin tested solution of 60% (w/v) solution of 60% w/v iodixanol in water that is designed for the *in vitro* isolation of biological particles. Iodixanol is essentially a dimmer of NycodenzTM; hence, OptiPrepTM is non-ionic and has all the benefits of NycodenzTM.

Applications

- Density: 1.320 ± 0.001g/mL
- Osmolality: 170 ± 15 mOsm
- Endotoxin level < 1.0 EU/mL
- · Can be used for either preformed gradients or self-generating gradients
- Isotonic solutions can be maintained at high densities
- Isolation of cells, subcellular membranes, viruses, plasma lipoproteins, nucleic acids and proteins



Isolation of human monocytes. Leucocytes (LC) float rapidly to surface of a dense leucocyterich plasma (LRP) to form a sharp band (1-2) from which the monocytes (M) and the lymphocytes (L) are resolved (3).

Product Number	Description	Osmolality ± 15 mOsm	Pkg Size	Price
AXS1114542	OptiPrep™	170 (hypotonic)	1 x 250 mL	\$203.10

Product Number	Description	Pkg Size	Price
AXS1114544 AXS1114545 AXS1114547 AXS1019818 AXS1019817	Lymphoprep [™] Lymphoprep [™] Lymphoprep [™] Tube Lymphoprep [™] Tube	1 x 250 mL 4 x 250 mL 6 x 500 mL 18 tubes x 10 mL 30 tubes x 2 mL	\$77.60 175.90 355.00 184.70 184.70

AXIS-SHIELD POLYMORPHPREP^{*}

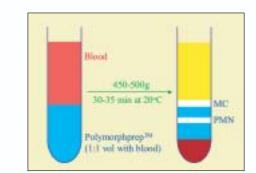
For isolation of human polymorphonuclear leucocytes

Polymorphonuclear leucocytes (PMNs) have a much greater buoyant density (>1.085g/mL) than mononuclear cells. The buoyant density of erythrocytes tends to be from 1.09-1.11g/mL. This makes polymorphonuclear leucocyte separation from whole blood using a density barrier difficult. Polymorphprep[™] is a ready-made, sterile and endotoxin tested solution which has been developed in an effort to overcome these difficulties.

Sodium diatrizoate 13.8% (w/v)

Dextran 500 8.0% (w/v)

- Osmolality 445 ± 15 mOsm
- Endotoxins <1.0 EU/mL
- Density 1.113g/mL ± 0.001g/mL



Product Number	Description	Pkg Size	Price
AXS1114683	Polymorphprep™	1 x 250 mL	\$77.60

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CELL MIGRATION

PLAT YPUS

PLATYPUS ORIS[™] CELL MIGRATION ASSAY

Adherent cell migration without cell culture inserts

The Oris[™] Cell Migration Assay^{*} is designed with a unique cell seeding stopper, detection mask, and stopper tool. There is no Transwell[®] membrane insert needed. This unique plate design generates highly reproducible results using a microscope, digital imaging system or fluorescence plate reader. The Oris[™] Cell Migration Assay is an ideal alternative to the scratch assay since the cell seeding stoppers create a consistent detection zone to monitor 2-D closure. Simply adhere the seeded cells in each well, remove the stopper to create a detection zone, and measure the migration. Oris[™] assays are available with tissue culture treated plates, Collagen I coated plates, Fibronectin coated plates, or a TriCoated^{**} version that contains all 3 surfaces. Wound healing assays are normally performed using a scratch assay, which has high variability.

All kits include: Oris[™] 96-well plate(s) with Oris[™] Cell Seeding Stopper(s); Oris[™] Detection Mask, 1; Oris[™] Stopper Tool, 1

Features

- · Membrane-free Migration No cumbersome cell culture inserts; stain and view cells in the same well
- **Reproducible Results** The unique design provides well-to-well CVs < 12%
- · Preserve Cell Morphology Changes in cell structure can be monitored in real time
- Versatile Analyze data using multiple probes in a single well using a microscope, digital imager, or fluorescence plate reader
- · Flexible Design kinetic or endpoint based cell migration assays without the use of special instrumentation

Product Number	Description	Pkg Size	Price
PPCMA1101	Oris [™] Cell Migration Assay	1 plate	\$265.80
PPCMA5101	Oris [™] Cell Migration Assay	5 plate	1,256.50
PPCMACC1101	Oris [™] Cell Migration Assay — Collagen I Coated	1 plate	277.90
PPCMACC5101	Oris [™] Cell Migration Assay — Collagen I Coated	5 plate	1,323.00
PPCMAFN1101	Oris [™] Cell Migration Assay — Fibronectin Coated	1 plate	290.00
PPCMAFN5101	Oris [™] Cell Migration Assay — Fibronectin Coated	5 plate	1,359.20
PPCMATR1101	Oris [™] Cell Migration Assay — TriCoated**	1 plate	302.10
PPCMATR5101	Oris [™] Cell Migration Assay — TriCoated**	5 plate	1,341.10
PPCMAIRT	Oris [™] Stopper Tool	1	24.20
PPCMAMM	Oris [™] Detection Mask	5	42.30

* Patent Pending. Oris[™] is a trademark of Platypus Technologies, LLC.

** TriCoated (Tissue Culture Treated, Collagen I Coated, Fibronectin Coated)

Transwell® is a registered trademark of Corning, Inc.

PLATYPUS ORIS[™] PRO CELL MIGRATION ASSAY

The Oris[™] Pro Cell Migration Assays (Tissue Culture Treated or Collgen I Coated) are a 2nd generation Oris[™] product in which the Oris[™] Cell Seeding Stoppers have been replaced by a dissolving Biocompatible Gel (BCG). The BCG creates an annular monolayer of cells with a cell-free, central area into which cell migration can occur. The Oris[™] Pro Cell Migration Assay enables the use of automated liquid handling equipment for cell seeding and allows unrestricted access to cells throughout the experiment. Readout can be performed in real-time using inverted microscopes and High Content Screening (HCS)/High Content Imaging (HCI) instruments.

Product Number	Description	Pkg Size	Price
PPPROCMA1	Oris [™] Pro Cell Migration Assay - Tissue Culture Treated	1 plate	\$174.00
PPPROCMA5	Oris [™] Pro Cell Migration Assay - Tissue Culture Treated	5 plate	811.80
PPPROCMACC1	Oris [™] Pro Cell Migration Assay - Collagen I Coated	1 plate	187.30
PPPROCMACC5	Oris [™] Pro Cell Migration Assay - Collagen I Coated	5 plate	875.90

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PLATYPUS ORIS[™] CELL MIGRATION ASSEMBLY KIT

Get creative with your cell migration, invasion, and 2-D closure assays!

Platypus Technologies has developed a product line that gives researchers more control over designing a cell migration assay. The Oris[™] Universal Cell Migration Assembly Kit is an ideal alternative to the scratch assay for studying wound healing. The detection zone created by the Oris[™] stopper provides a consistent area for a 2-D closure assay.

Features

- Flexible Evaluation Perform partial plate experiments without compromising sterility or integrity of the plate with the NEW! FLEX kit
- More Data Per Well Analyze cells using multiple fluorescent probes, labels or stains by using a microplate reader, microscope or high content imaging system
- Creative Assay Design Coat any ECM or BME on the plate to create a 2-D or 3-D environment for cell migration or cell invasion assays
- Reproducible Results Achieve lower well-to-well CV's with the unique Oris[™] assay design than with scratch assays.
- Real-time Monitoring Track changes in cell movement and morphology as cell migration or invasion progresses
- HTS and HCS Compatibility Observe cells directly without interference from cell culture inserts or transmembrane devices

All kits include: Oris[™] Detection Mask, 1; Oris[™] Stopper Tool, 1

Product Number	Description	Pkg Size	Price
PPCMAUFL4	Oris [™] Cell Migration Assembly Kit - FLEX Includes: Oris [™] compatible, 96-well plates, 4; Oris [™] Cell Seeding Stoppers, 4 packs of 24* (Sufficient materials for 96 tests)	Kit	\$326.20
PPCMAU101	Oris [™] Universal Cell Migration Assembly Kit Includes: Oris [™] -compatible, 96-well plate (black, clear bottom), 1; Oris [™] Cell Seeding Stoppers, 96	1-pack	265.80
PPCMAU505	Oris [™] Universal Cell Migration Assembly Kit Includes: Oris [™] -compatible, 96-well plates (black, clear bottom), 5; Oris [™] Cell Seeding Stoppers, 5 x 96	5-pack	1,256.50
PPCMAIRT	Oris [™] Stopper Tool	1	24.20
PPCMAMM	Oris [™] Detection Mask	5	42.30

PLATYPUS ORIS[™] INVASION AND DETECTION ASSAY KIT

View Cell Invasion in 3-D!

The Oris[™] Cell Invasion & Detection Assay offers a more versatile method for quantitating and imaging cells invading through an extracellular matrix (ECM) compared to a Boyden chamber device or membrane cell culture insert. Using Oris[™] Cell Seeding Stoppers to create an invasion zone at the bottom of a microplate well, researchers can detect cell invasion in a 3-dimensional overlay of a Basement Membrane Extract (BME) component and monitor cell movement in real-time.

Features

- Membrane-free Cell Invasion No cumbersome cell culture inserts or Transwell[®] membrane devices to limit cellular movement; there is no membrane to block live images of the cell
- Preserve Cell Morphology Provides a more native 3-D environment since cells do not have to penetrate through a polycarbonate membrane
- Real-time Monitoring Changes in cell structure can be monitored in real-time with a microscope, digital imaging system or fluorescence plate reader (Calcein AM Reagent provided in kit)
- Versatile Analyze cells using multiple fluorescent probes, labels or colourimetric stains in a single well
- Flexible Design kinetic or endpoint assays without the use of special instrumentation

Product Number	Description	Pkg Size	Price
PPCIA101DE	Oris [™] Cell Invasion and Detection Assay Kit Includes: Oris [™] Compatible, 96-well plate, 1 Oris [™] Cell Seeding Stoppers, 96 Oris [™] Detection Mask, 1 Oris [™] Stopper Tool, 1 Oris [™] Basement Membrane Extract (BME), 1 x 5 mL Calcein AM Reagent, 1 x 20 µL	1-pack	\$607.50
PPCIA200DE PPCMAIRT PPCMAMM	Oris™ Cell Invasion and Detection Assay Kit Oris™ Stopper Tool Oris™ Detection Mask	2-pack 1 5	1,101.10 24.20 42.30

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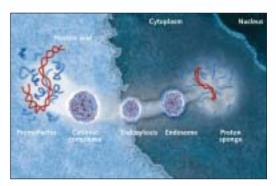
TRANSFECTION

PROMOKINE PROMOFECTIN TRANSFECTION REAGENTS

PromoFectin is a non-liposomal transfection reagent based on a water-soluble, cationic polymer. First, it delivers DNA into the cytosol where the DNA is almost completely released, then PromoFectin promotes DNA trafficking to the cell nucleus. PromoFectin functions with both adherent and nonadherent cells with a high degree of reproducibility. PromoFectin has been used successfully with many problematic cell lines and sensitive primary cells.

PromoFectin Feature and Benefits

- Efficient transfection
- Suited for cell lines and primary cells
- · Works in the presence of serum and antibiotics
- Gentle to sensitive cells



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PromoFectin Specific Reagents

PromoFectin-HUVEC

A PromoFectin derivative optimized for the transfection of primary endothelial cells such as HUVEC and HDMEC. It shows very little cytotoxicity and enables very high transfection rates.

PromoFectin-Hepatocyte

A ligand-conjugated derivative of PromoFectin specialized for hepatocyte transfection (e.g. human and murine hepatocytes, hepatocyte cell lines, and hepatocarinoma cells). The reagent/nucleic acid complexes bind specifically to surface receptors on the target cells leading to extremely high transfection rates.

PromoFectin-Neuron

A cationic, polymer-based transfection reagent created for the transfection of primary neuronal cells, glial cells, and neuronal cell lines. Cells take up the polymer/DNA complex through endocytosis, where the polymer is biodegraded into non-toxic molecules. Compared to viral methods, PromoFectin-Neuron allows less complicated nucleic acid delivery with high transfection rates.

PromoFectin-Insect

A unique, lipsome-based transfection reagent optimized for nucleic acid delivery into insect cells, especially those derived from Spodoptera frugiperda (e.g. Sf9 or Sf21). It outperforms other insect cell transfection reagents in comparison studies and requires less DNA. PromoFectin-Insect demonstrates broad vector delivery capability, excellent reproducibility, and high expression levels for small- or large-scale protein production.

PromoFectin-Oligo

A novel transfection reagent intended for the delivery of oligonucleotides into a wide variety of cell types. Unlike similar reagents, it shows low cytotoxicity and excellent transfection efficiency.

PromoFectin-siRNA

A cationic, lipid-based transfection reagent designed for the highly efficient delivery of siRNA into a wide variety of cell types, including problematic cell lines and primary cells. It enables optimal gene silencing with low cytoxicity.

PromoFectin-Polypeptide

PromoFectin-Polypeptide is a novel reagent created for the highly efficient delivery of proteins and polypeptides (e.g. blocking peptides and labeled antibodies) into a wide variety of cells. It captures protein molecules and transports them into the cytosol of living cells while maintaining the protein's structure. This allows researchers to study intracellular protein functions without the need for DNA cloning and DNA transfection.

Product Number	Description	Pkg Size	Price
PKCT200010	PromoFectin	0.1 mL	\$49.00
PKCT200050	PromoFectin	0.5 mL	179.00
PKCT2000100	PromoFectin	1.0 mL	279.00
PKCT2000HUV10	PromoFectin-HUVEC	0.1 mL	129.00
PKCT2000HUV50	PromoFectin-HUVEC	0.5 mL	399.00
PKCT2000HEP10	PromoFectin-Hepatocyte	0.1 mL	129.00
PKCT2000HEP50	PromoFectin-Hepatocyte	0.5 mL	399.00
PKCT2000NEU075	PromoFectin-Neuron	0.75 mL	439.00
PKCT2000INC100	PromoFectin-Insect	1.0 mL	179.00
PKCT2000OLI050	PromoFectin-Oligo	0.5 mL	129.00
PKCT2000OLI100	PromoFectin-Oligo	1.0 mL	229.00
PKCT2000RNA50	PromoFectin-siRNA	50 rxns	149.00
PKCT2000RNA200	PromoFectin-siRNA	200 rxns	349.00
PKCT2000POL24	PromoFectin-Polypeptide	24 rxns	319.00

TRANSFECTION

PromoKine

PROMOKINE MAGNET-ASSISTED TRANSFECTION (MATra) REAGENTS

Magnet Assisted Transfection (MATra) is a very fast and highly efficient technology for transfecting cells in culture. It can be used for adherent and, in combination with the MATra-S Immobilizer, suspension cells from a broad variety of species. The major components of MATra are coated magnetic nanoparticles, which effectively bind either nucleic acids or liposomes. Using a special magnet plate, the nanoparticles with the bound nucleic acids or liposomes are rapidly drawn towards the cells and are deposited at a high concentration on the outer cell membrane. Afterwards, the cells endocytose the particles, which leads to a high transfection rate even with problematic cells. To perform Magnet Assisted Transfection, specially designed neodymium magnet plates are necessary. PromoKine offers them in different sizes, optimized for different cell culture vessels.

MATra Features and Benefits

- Efficient high dose transfection
- Fast procedure
- Suited for cell lines and primary cells
- Works in the presence of serum and antibiotics

MATra-A Reagent

The MATra-A Reagent contains coated magnetic nanoparticles, which effectively bind nucleic acids (e.g. plasmid DNA or oligonucleotides) due to an innovative polyeletrolyte coating.

MATra-siRNA Reagent

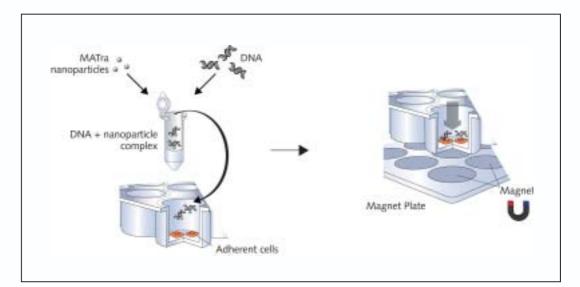
The MATra-siRNA Reagent contains specifically coated magnetic nanoparticles, which are optimized to effectively bind and stabilize siRNA (small interfering RNA).

MA Lipofection Enhancer

The MA Lipofection Enhancer contains coated magnetic nanoparticles, which bind liposomes and any polycationic transfection reagents (e.g. PromoFectin) which in turn bind nucleic acids (e.g. plasmid DNA, oligonucleotides, siRNA). Using the MA Lipofection Enhancer, cells are transfected more efficiently than with liposomal or polycationic transfection reagents alone.

MATra-S Immobilizer

The MATra-S Immobilizer contains coated magnetic nanoparticles, which bind suspension cells. Using a special magnet plate, the magnetic nanoparticles with the bound cells are rapidly drawn towards the bottom of the cell culture vessel, where they are immobilized. By combining the MATra-S Immobilizer with the other MATra reagents, suspension cells can also be transfected conveniently.



Product Number	Description	Pkg Size	Price
PKCT2001005	MATra-A Reagent	50 μL	\$69.00
PKCT2001020	MATra-A Reagent	200 µL	219.00
PKCT2001100	MATra-A Reagent	1.0 mL	879.00
PKCT2021005	MATra-siRNA Reagent	50 μL	69.00
PKCT2021020	MATra-siRNA Reagent	200 μL	219.00
PKCT2021100	MATra-siRNA Reagent	1.0 mL	879.00
PKCT2003005	MA Lipofection Enhancer	50 μL	39.00
PKCT2003020	MA Lipofection Enhancer	200 µL	110.00
PKCT2003100	MA Lipofection Enhancer	1.0 mL	439.00

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PROMOKINE DNA FRAGMENTATION DETECTION KITS

Features

- High sensitivity
- Appropriate for various multiwell formats and automation
- Compatible with standard lab equipment

Applications

- Detect fragmented nucleosomal DNA
- · Screening for apoptotic cells
- Fluorescence microscopy
- · Flow cytometry

Fluorometric DNA Fragmentation Detection Kits I and II (BrdU)

The PromoKine DNA Fragmentation Detection Kits I and II are based on the TUNEL method and identify DNA strand breaks occuring during apoptosis. The kits provide all required components - including positive and negative control cells and tissue slides - for convenient detection of DNA fragmentation by fluorescence microscopy or flow cytometry. The TUNEL assay employs a terminal deoxynucleotidyl transferase (TdT) to add Br-dUTP (bromolated deoxyuridine triphosphate nucleotides) to the fragmented DNA strands. Br-dUTP is more readily incorporated into DNA strand breaks than other larger ligands (e.g., fluorescein, biotin or digoxigenin). The greater incorporation gives rise to a brighter signal when the Br-dUTP sites are identified by a green-fluorescent (Kit I) or red-fluorescent (Kit II) labeled anti-BrdU monoclonal antibody. The labeled DNA can then be observed by fluorescence microscopy or analyzed by flow cytometry. The DNA Fragmentation Kit II works also very well with GFP transfected cells.

Fluorometric DNA Fragmentation Detection Kit III (F-dUTP)

The Fluorometric DNA Fragmentation Detection Kit III is a modified TUNEL assay and provides all reagents required for the specific detection of apototic cells within a cell population in tissue sections and fixed cell preps. The kit utilizes terminal deoxynucleotidyl transferase (TdT) to catalyze incorporation of fluorescein-12-dUTP at the free 3'-hydroxyl ends of the fragmented DNA. The fluorescein-labeled DNA can then be observed by fluorescence microscopy or analyzed by flow cytometry.

Colourimetric DNA Fragmentation Detection Kit (IHC)

The ready-to-use, TUNEL-based Colourimetric DNA Fragmentation Detection Kit (IHC) has been specifically designed for convenient detection of DNA fragmentation in tissue sections and fixed cell preps. It includes positive and negative control slides and utilizes Br-dUTP, biotin-labeled anti-BrdU antibodies and HRP-streptavidin conjugate. Immunohistochemical staining results can be microscopically analyzed.

Apoptotic DNA Ladder Detection Kit I

The Apoptotic DNA Ladder Detection Kit I provides an easy and sensitive means for detecting DNA fragmentation in apoptotic cells. The method requires less than 90 minutes to prepare the DNA, without the need for extraction or columns. DNA fragmentation can then easily be visualized by agarose gel electrophoresis. The procedure increases recovery of small fragmented DNA, and therefore improves the sensitivity of the assay. The assay can be used to detect apoptotic DNA ladders, extracting both genomic DNA and laddered DNA.

Apoptotic DNA Ladder Detection Kit II

Using the Apoptotic DNA Ladder Extraction Kit II allows to selectively isolate DNA ladders without interference of regular genomic DNA. Apoptotic DNA ladders from both tissues and cells with as little as 5% or less apoptotic cell population can be detected. The kit specifically extracts laddered DNA, not genomic DNA.

Product Number	Description	Pkg Size	Price
PKCA577K120	Apoptotic DNA Ladder Detection Kit I, 50 assays For fast and sensitive detection of DNA fragmentation in apoptotic cells	Kit	\$329.00
PKCA577K130	Apoptotic DNA Ladder Detection Kit I Plus, 50 assays For fast and sensitive detection of DNA fragmentation in apoptotic cells	Kit	449.00
PKCA577K170	Apoptotic DNA Ladder Detection Kit II, 50 assays For sensitive detection of apoptotic DNA ladder in both tissue and cells	Kit	449.00
PKCA577K403	Colourimetric DNA Fragmentation Detection Kit, 50 assays (IHC) TUNEL-based immunohistochemical staining kit including positive and negative control slides for convenient detection of DNA fragmentation in tissue sections and fixed cell preps	Kit	679.00
PKCA577K401	Fluorometric DNA Fragmentation Detection Kit I, 60 assays (BrdU) TUNEL-based assay kit for convenient detection of DNA fragmentation in cultured cells and tissue sections	Kit	579.00
PKCA577K404	Fluorometric DNA Fragmentation Detection Kit II, 60 assays (BrdU) TUNEL-based assay kit provides for convenient detection of DNA fragmentation in cultured cells and tissue sections	Kit	599.00
PKCA577K402	Fluorometric DNA Fragmentation Detection Kit III, 50 assays (F-dUTP) TUNEL-based assay kit for convenient detection of DNA fragmentation in cultured cells and tissue sections (one-step labeling of apoptotic cells)	Kit	599.00



DNA DAMAGE AND APOPTOSIS ASSAYS

PromoKine

PROMOKINE Cytochrome c APOPTOSIS DETECTION KIT

Features

- Non radioactive method
- Easy and fast procedure
- No toxic chemicals necessary

Applications

- Screening for apoptotic cells
- Analysis of apoptotic signal cascades

Cytochrome c has been shown to play an important role in apoptosis. The protein is located in the space between the inner and outer mitochondrial membranes. An apoptotic stimulus triggers the release of cytochrome c from the mitochondria into the cytosol where it binds to Apaf-1. The cytochrome c/Apaf-1 complex activates caspase-9 which then activates caspase-3 and other downstream caspases of the apoptotic cascade. The PromoKine Cytochrome c Apoptosis Detection Kit provides an effective means for detecting cytochrome c translocation from mitochondria into cytosol during apoptosis. The kit provides an easy-to-use procedure and unique reagents for separating a highly enriched mitochondria fraction from cytosol. Cytochrome c released from mitochondria into cytosol is then determined by Western blotting using the cytochrome c antibody provided in the kit. The procedure is very simple and straightforward - no ultracentrifugation is required and no toxic chemicals are involved.

PROMOKINE MITOCHONDRIAL APOPTOSIS STAINING KIT

Features

- Optimal sensitivity due to high fluorescence intensity
- · Appropriate for various multiwell formats and automation
- · Excitation and emission spectra are compatible with common excitation sources and filter sets

Applications

- Screening for early apoptotic cells
- Fluorescence microscopy
- Flow cytometry

Disruption of mitochondrial transmembrane potential is one of the earliest intracellular events that occurs upon induction of apoptosis. The Mitochondrial Apoptosis Staining Kit provides a simple and sensitive, fluorescent-based *in vitro* assay for detecting the mitochondrial changes in apoptosis and distinguishing between healthy and apoptotic cells. The assay utilizes a novel cationic dye (called MitoCapture[™]) that fluoresces differently in healthy versus apoptotic cells. In healthy cells, MitoCapture[™] accumulates and aggregates in the mitochondria - fluorescing brightly red. In apoptotic cells, a shift in mitochondrial transmembrane potential prevents the dye from accumulating in the mitochondria. Instead it remains in the cytoplasm in its monomer form - fluorescing green. The fluorescent signals can be easily detected by fluorescence microscopy or flow cytometry using common filters and channels, respectively (FITC, rhodamine, PI). The assay takes approximately 20 minutes, is highly sensitive and detects apoptosis reliably in living cells.

Product Number	Description	Pkg Size	Price
PKCA577K257	Cytochrome c Apoptosis Detection Kit, 100 assays Detects cytochrome c translocation from mitochondria into cytosol during apoptosis	Kit	\$499.00
PKCA577K25025	Mitochondrial Apoptosis Staining Kit, 25 assays Highly sensitive assay - detecting apoptosis in living cells	Kit	229.00
PKCA577K250100	Mitochondrial Apoptosis Staining Kit, 100 assays Highly sensitive assay - detecting apoptosis in living cells	Kit	449.00
PKCA5771065	MitoCapture Incubation Buffer	200 mL	195.00
PKRP5772120100	Cytochrome c	100 mg	149.00

PROMOKINE GLUTATHIONE DETECTION

Product Number	Description	Pkg Size	Price
PKCA577K251	Fluorometric Glutathione Detection Kit, 100 assays For detecting the GSH changes in apoptosis and other pathological processes	Kit	\$449.00
PKCA577K261	Colourimetric Glutathione Detection Kit, 100 assays For detecting the GSH changes in apoptosis and other pathological processes	Kit	499.00
PKCA577K761	Colourimetric Glutathione Reductase Activity Kit, 200 assays Colourimetric quantitation of glutathione reductase activity	Kit	399.00

PROMOKINE APOPTOTIC AND NECROTIC CELL DIFFERENTIATION

Fast and convenient detection of apoptotic and necrotic cells

U937 cells treated with an apoptosis inducing agent were analyzed using the Apoptotic/Necrotic/Healthy Cells Detection Kit. Apoptotic cells are stained green while necrotic cells show red fluorescence and healthy cells fluoresce blue.



Features

- · Convenient simultaneous detection apoptotic and necrotic as well as healthy cells in a single assay
- Fast, one-step procedures assays completed within 15 minutes
- · Optimized sensitivity

Apoptosis and necrosis are the two major processes leading to cell death. Apoptosis is an active, genetically regulated "cell suicide" induced by diverse factors. This disassembly of the cell creates multiple events and is associated e.g. with changes in the phospholipid content of the outer leaflet of the cytoplasmic membrane. Phosphatidylserine (PS) is translocated from the inner to the outer surface of the cell for phagocytic cell recognition. Thus, apoptotic cells can be easily and reliably identified with Annexin V, a phospholipid protein with a high affinity for PS, that binds specifically to the PS exposed on the outer membrane leaflet of apoptotic cells. When Annexin V is labeled e.g. with fluorescein (FITC) apoptotic cells are stained brightly green.

Necrosis normally results from a severe cellular insult. Since both internal organelle and plasma membrane integrity are lost, cytosolic and organellar contents are released into the surrounding environment. Ethidium homodimer III (EtD-III) is a nucleic acid probe, which is impermeant to live or apoptotic cells, but stains necrotic cells intensively with red fluorescence. Due to its significantly higher affinity for DNA and higher fluorescence quantum yield, EthD-III is a superior alternative to propidium iodide (PI) or ethidium homodimer I (EthD-I) commonly used in some other cell staining kits.

The PromoKine Apoptotic/Necrotic Cells Detection Kit provides a convenient assay for quantifying apoptotic (green) and necrotic (red) cells within the same cell population by flow cytometry or fluorescence microscopy.

The PromoKine Apoptotic/Necrotic/Healthy Cells Detection Kit additionally includes a membrane-permeant blue fluorescent DNA stain (Hoechst 33342) for quantifying the healthy cell population. Thus, this kit allows simultaneous quantification of apoptotic (green), necrotic (red) and healthy cells (blue) within the same cell population by flow cytometry or fluorescence microscopy.

Product Number	Description	Pkg Size	Price
PKCA70730017	Apoptotic/Necrotic Cells Detection Kit, 50 assays Fast and sensitive simultaneous detection and quantitation of apoptotic and necrotic cells in a single assay	Kit	\$239.00
PKCA70730018	Apoptotic/Necrotic/Healthy Cells Detection Kit, 50 assays Fast and sensitive simultaneous detection and quantitation of apoptotic, necrotic and healthy cells in a single assay	Kit	249.00

PROMOKINE APOPTOTIC CELL ISOLATION KIT

Benefits

- Fast, simple and efficient
- Ready-to-use, complete kit

Applications

- Isolation of apoptotic cells
- Removal of dead cells from culture

The PromoKine Apoptotic Cell Isolation Kit provides a simple and efficient means for isolation of apoptotic cells or removal of dead cells from cell culture or tissue preparations using Annexin V magnetic beads (MagBeads). Since Annexin V is a phospholipid-binding protein with high affinity for phosphatidylserine (PS), it binds strongly to PS that is redistributed from the inner to the outer surface of plasma membrane during apoptosis. Binding of Annexin V-biotin to apoptotic cells is followed by binding of the biotin to streptavidin-MagBeads enabling separation of apoptotic cells from normal cells. The apoptotic cells bound to the MagBeads adhere to the magnet - while normal cells stay in suspension. The bound apoptotic cells can then be released from the MagBeads using the Elution Buffer provided in the kit. The separated apoptotic cells and normal cells can be used in a variety of assays to study apoptotic mechanisms and pathways. The kit has also been successfully used to remove dead cells from normal culture. A re-usable magnetic separator designed for that kit is also available.

Product Number	Description	Pkg Size	Price
PKCA577K258	Apoptotic Cell Isolation Kit, 30 isolations Isolation of apoptotic cells from normal culture using annexin V magnetic beads (MagBeads)	Kit	\$449.00
PKCA577K19991	Magnetic Separator (re-usable) Uses in conjunction with the Apoptotic Cell Isolation Kit	1 unit	299.00

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MJS BioLynx Inc.

PromoKine

PROMOKINE ANNEXIN V DETECTION

Features

- · High fluorescence intensity and sensitivity
- Many different labels and tags available
- Appropriate for various multiwell formats and automation
- Excitation and emission spectra are compatible with common excitation sources and filter sets

Applications

- · Screening for apoptotic cells
- Differentiating apoptotic and necrotic cells
- Annexin detection
- Flow cytometry
- Fluorescence microscopy

In the early stages of apoptosis, changes can be observed on the cell surface: Cells lose their phospholipid membrane asymmetry and expose phosphatidylserine (PS) on the exterior plasma membrane. Annexin V is a Ca²⁺-dependent, phospholipid-binding protein with high affinity for phosphatidylserine (PS) and is thus very useful for identifying apoptotic cells exposing PS on the cell surface to the extracellular environment. Annexin V may be conjugated to biotin or fluorophores such as FITC and phycoerythrin (PE) or it may be tagged with EGFP (Enhanced Green Fluorescent Protein). Since Annexin V conjugates or tagged Annexins retain their high affinity for PS, they are ideally suited as highly sensitive probes to identify early apoptotic cells and to detect apoptosis much earlier than assays based on DNA fragmentation or loss of membrane integrity. The stained cells can be evaluated by flow cytometry or fluorescence microscopy using common filter sets and flow cytometer channels.

Annexin V Detection Kits

The Annexin V Apoptosis Detection Kits include an Annexin V conjugate or a tagged Annexin V, respectively, as well as binding buffer and partially also propidium iodide (PI) for differentiating between early apoptotic and necrotic cells. The kits allow a one-step staining procedure that takes only 10 minutes. In addition, the assay can be directly performed on living cells.

Promokine Annexin V Apoptosis Detection Kit Plus includes an additional dye, SYTOX green, that is impermeant to live and apoptotic cells, but stains necrotic cells with intense green fluorescence by binding to cellular nucleic acids. After staining a cell population with e.g. fluorescent Annexin V-Cy3 or Annexin V-PE conjugates and SYTOX Green dye in the provided binding buffer, apoptotic cells show red fluorescence, dead cells show green fluorescence and live cells show little or no fluorescence. These populations can easily be distinguished by fluorescence microscopy using the appropriate filters.

Individual Annexin V Reagents

PromoKine also offers a wide range of Annexin V reagents separately. For easy staining of early apoptotic cells, Annexin V conjugated to FITC, PE, Cy3, Cy5 and biotin are available, as well as Annexin V tagged with EGFP. The stained cells can be evaluated by flow cytometry or fluorescence microscopy using common filter sets and flow cytometer channels. Biotinylated Annexin V can be detected in conjunction with conventional dye-staining using any streptavidin- or avidin-dye reagents, such as our PromoFluor-streptavidin/avidin conjugates, fluorescein-, PE- or APC-streptavidin as well as streptavidin/avidin conjugated to peroxidase, alkaline phosphatase (AP), ß-gal, etc.

Product Number	Description	Pkg Size*	Price
PKCA577K10925	Annexin V-Biotin Apoptosis Kit, 25 assays Detecting apoptosis in living cells by flow cytometry or fluorescence microscopy	Kit	\$229.00
PKCA577K10225	Annexin V-Cy3 Apoptosis Kit, 25 assays Detecting apoptosis in living cells by flow cytometry or fluorescence microscopy	Kit	229.00
PKCA577K20225	Annexin V-Cy3 Apoptosis Kit Plus, 25 assays Detecting apoptosis in living cells by flow cytometry or fluorescence microscopy	Kit	239.00
PKCA577K10325	Annexin V-Cy5 Apoptosis Kit, 25 assays Detecting apoptosis in living cells by flow cytometry or fluorescence microscopy	Kit	229.00
PKCA577K10425	Annexin V-EGFP Apoptosis Kit, 25 assays Detecting apoptosis in living cells by flow cytometry or fluorescence microscopy	Kit	229.00
PKCA577K10125	Annexin V-FITC Apoptosis Kit, 25 assays Detecting apoptosis in living cells by flow cytometry or fluorescence microscopy	Kit	229.00
PKCA577K20125	Annexin V-FITC Apoptosis Kit Plus, 25 assays Simultaneous detection of apoptosis and necrosis by flow cytometry	Kit	239.00
PKCA577K12825	Annexin V-PE Apoptosis Detection Kit, 25 assays Detecting apoptosis in living cells by flow cytometry or fluorescence microscopy	Kit	249.00
PKCA577K20325	Annexin V-PE Apoptosis Kit Plus, 25 assays Detecting apoptosis in living cells by flow cytometry or fluorescence microscopy	Kit	239.00
PKCA577K12925	Annexin V-PE-Cy5 Apoptosis Detection Kit, 25 assays Detecting apoptosis in living cells by flow cytometry or fluorescence microscopy	Kit	279.00

*100 and 400 assay sizes also available. Please inquire.

PROMOKINE APOPTOSIS INDUCERS

Benefits

- High quality
- Ready-to-use

Applications

- Induction of apoptotic effects
- Ideally suited for use with diverse apoptosis detection systems

PromoKine offers a selected choice of high quality apoptosis inducers, partially in ready-to-use form or in a convenient set. The apoptosis inducers are well characterized and effective e.g. in disrupting mitochondrial transmembrane potential and activating caspases as well as inducing phosphatidylserine (PS) exposure, DNA fragmentation and other apoptotic characteristics. All inducers are ideally suited for use with various PromoKine apoptosis detection systems. Diverse high quality antibodies, cytokines and growth factors that are involved in apoptosis as well as Apoptosis ELISAs are also available separately.

Product Number	Description	Pkg Size	Price
PKCA577K1215	Apoptosis Inducer Set contains 5 ready-to-use apoptosis inducers (Actinomycin D, Camptothecin, Cycloheximide, Dexamethasone, Etoposide) in a kit format	Kit	\$329.00
PKCA577103650	Actinomycin D (10 mM) Potent inducer of apoptosis in many cell lines — Ready-to-use	50 µL	119.00
PKCA577154910	Anisomycin Activator of p54 and MAP kinases; induces apoptosis e.g. in the human monoblastoid cell line	10 mg	159.00
PKCA577155225	Betulinic acid Anti-tumor and anti-HIV agent that induces apoptosis	25 mg	149.00
PKCA57715605	Brefeldin A Induces apoptosis via caspase activation	5 mg	299.00
PKCA57710391	Camptothecin (2 mM) Induces apoptosis in Jurkat, osteosarcoma and hepatoma cells — Ready-to-use	1 mL	119.00
PKCA5771519	Colchicine Induces apoptosis in PC-12 cells and cerebellar granule cells	1 g	139.00
PKCA57710411G	Cycloheximide Induces apoptosis in a variety of cells but can also delay or inhibit apoptosis by other agents	1 g	169.00
PKCA577152410	Daunorubicin.HCl Induces DNA single strand breaks and apoptosis e.g. in HeLaS3 tumor cells	10 mg	139.00
PKCA57710421	Dexamethasone (10 mM) Induces apoptosis in human thymocytes — Ready-to-use	1 mL	119.00
PKCA57715275	Doxorubicin.HCI Anti-tumor antibiotic that induces apoptosis	5 mg	139.00
PKCA5771043100	Etoposide (10 mM) Induces apoptosis in human Tcells, HL-60 human leukemia cells — Ready-to-use	100 µL	119.00
PKCA577153310	Genistein Produces cell cycle arrest and apoptosis (>99% pure)	10 mg	139.00
PKCA57715665	lonomycin (calcium salt) Useful in cell activation experiments when calcium dose-response data are not required (>90% pure)	5 mg	379.00
PKCA578M110810	Mitomycin C Inhibitor of DNA synthesis, nuclear division. Induces apoptosis in cancer cells	10 mg	159.00
PKCA57715685	Rapamycin Reported to induce apoptosis in a murine B cell line (>99%pure)	5 mg	299.00
PKCA57715595	Rosiglitazone Induces apoptosis in various cells, e.g. in vascular smooth muscle cells	5 mg	159.00
PKCA5771048010	Staurosporine Potent apoptosis inducer	100 µg	159.00
PKCA5771551	Tamoxifen citrate Induces apoptosis e.g. in human malignant glioma cell lines	1 g	159.00
PKCA57715581	Thapsigargin Induces apoptosis in rat thymocytes and in human hepatoma cells (>99% pure)	1 mg	159.00

This is only a partial listing - please inquire.

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CELL VIABILITY

PROMOKINE CELL VIABILITY AND SENESCENCE DETECTION KITS

Applications

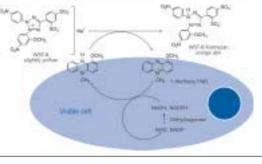
- · Cell viability and proliferation assays
- Growth factor / cytokine assays
- Optimization of cell culture conditions
- Cell number determination
- Detection of senescent cells

Benefits

- · Highly sensitive and robust assays
- Non-radioactive methods
- Easy and fast procedures
- Reliable and reproducible results
- Appropriate for various multiwell formats and automation
- · Excitation and emission spectra are compatible with common spectrophotometers/ plate readers

PromoKine offers six types of cell viability kits: The Fluorometric Cell Viability Kits I and II, the Colorimetric Cell Viability Kits I, II III and IV and the Bioluminescent Cell Viability Kits I and II. Since all kits are designed for use with various multiwell formats, they are also suited for automation. In addition, PromoKine also offers a range of high-quality, economically priced tetrazolium salts for preparing your own cell counting, proliferation and cytotoxicity assays including INT, MTT, XTT and different WST salts.

Product Number	Description	Pkg Size	Price
PKCA577K2541K	Bioluminescent Cell Viability Kit I (ATP) This kit utilizes bioluminescent detection of the ATP level via luciferase catalyzed reaction for a rapid screening of apoptosis and cell viability in mammalian cells, 1000 assays	Kit	\$549.00
PKCA577K254200	Bioluminescent Cell Viability Kit I (ATP) This kit utilizes bioluminescent detection of the ATP level in a luciferase catalyzed reaction for a rapid screening of apoptosis and cell viability in mammalian cells, 200 assays	Kit	219.00
PKCA577K255	Bioluminescent Cell Viability Kit II (ADP/ATP) Assay for detecting ADP/ATP ratios for a rapid screening of apoptosis/necrosis/growth arrest/cell proliferation simultaneously in mammalian cells, 200 assays	Kit	449.00
PKCA705CK04	Colourimetric Cell Viability Kit I (WST-8) Colorimetric cell viability and cytotoxicity detection, 500 assays	Kit	139.00
PKCA577K30125C	Colourimetric Cell Viability Kit II (WST-1) Fast and sensitive cell proliferation assay using WST-1, 2500 assays	Kit	499.00
PKCA577K301500	Colourimetric Cell Viability Kit II (WST-1) Fast and sensitive cell proliferation assay using WST-1, 500 assays	Kit	219.00
PKCA203001000	Colourimetric Cell Viability Kit III (XTT) Cell Proliferation & Cytotoxicity Assay Kit, 1000 assays	Kit	179.00
PKCA70730006	Colourimetric Cell Viability Kit IV (MTT) Cell Proliferation & Cytotoxicity Assay Kit, 1000 assays	Kit	199.00
PKCA705CV06	Fluorometric Cell Viability Kit I (ATP) Fluorometric cell viability and cytotoxicity detection, 200 assays	Kit	245.00
PKCA705CK06	Fluorometric Cell Viability Kit II (Calcein) Fluorometric cell viability and cytotoxicity detection, 500 assays	Kit	199.00
PKCA707300251	Fluorometric Cell Viability Kit III (Resazurin) Fluorometric cell viability and cytotoxicity detection, 25 mL (2500 assays)	Kit	179.00
PKCA707300252	Fluorometric Cell Viability Kit III (Resazurin) Fluorometric cell viability and cytotoxicity detection, 100 mL (10000 assays)	Kit	349.00
PKCA577K320	Senescence Detection Kit Specific detection of senescence marker in distinct pH in cultured cells and tissue sections, 250 assays	Kit	329.00
PKCA70710054	Resazurin, sodium salt Can be used for measuring cell proliferation and mitochondrial metabolic activity	10 mg	159.00



CELL VIABILITY

ENZO[®] LIFE SCIENCES CELLestial[™] LIVE CELL ANALYSIS DYES REFERENCE CHART

Fluor	Emission	Ex/Em In nm	Kit	Product Number	Price
Nucleolar-ID [™] Green Detection Reagent	Blue/Green	450/481	Nucleolar-ID [™] Green Detection Kit, 500 reactions Nucleolar-ID [™] Green/Red Nucleolar/Nuclear Detection Kit, 500 reactions	ENZ51009500 ENZ51006500	\$220.80 295.00
 FluoForte[™] Reagent 	Green	490/514	FluoForte [™] Calcium Assay Kit – for microplates (starter pack) FluoForte [™] Calcium Assay Kit – for microplates (high throughput)	ENZ51017 ENZ51016	752.10 3,927.10
 Mito-ID[™] Membrane Potential Reagent 	Green	510/525,590 (Dual Emission)	Mito-ID [™] Membrane Potential Cytotoxicity Kit Mito-ID [™] Membrane Potential Detection Kit	ENZ51019KP002 ENZ51018K100	298.90 516.50
Nuclear-ID [™] Green Detection Reagent	Green	503/531	Nuclear-ID [™] Green Cell Cycle Analysis Kit Nuclear-ID [™] Green Chromatin Condensation Detection Kit	ENZ51014100 ENZ51021K200	366.50 342.60
 GFP-Certified[™] FluoForte[™] Reagent 	Red-shifted	530/570	GFP-Certified [™] FluoForte [™] Calcium Assays Kits	ENZ51020KP010	752.10
Lyso-ID [™] Red Detection Reagent	Red	568/667	Lyso-ID [™] Red Detection Kit	ENZ51005500	285.60
Mito-ID [™] Red Detection Reagent	Red	558/690	Mito-ID [™] Red Detection Kit	ENZ51007500	285.60
 Nuclear-ID[™] Red Detection Reagent 	Red	568/637	Nuclear-ID [™] Red Cell Cycle Analysis Kit Total Nuclear-ID [™] Green/Red Nucleolar/Nuclear Detection Kit	ENZ51008100 ENZ51006500	366.50 295.00
 Nuclear-ID[™] Red Detection Reagent 	Red	568/637	Total Nuclear-ID [™] Green/Red Nucleolar/Nuclear Detection Kit	ENZ51006500	295.00
 Nucleolar-ID[™] Green Detection Reagent 	Blue/Green	450/481	Total Nuclear-ID [™] Green/Red Nucleolar/Nuclear Detection Kit		
Annexin V-cyanine 3 Red Necrosis Stain GFP	Yellow Red Green	550/570 546/647 488/509	Apoptosis/Necrosis Detection Kit	ENZ51002100	349.00
Oxidative Stress Detection Reagent	Green	504/524	ROS/RNS Kit for Microscopy	ENZ51001200	342.60
Superoxide Detection Reagent NO Detection Reagent	Orange Red	530/590 648/666	Total ROS/Superoxide Detection Kit NO Detection Kit for microscopy	ENZ51010 ENZ51013200	270.30 198.00

Introducing...

MICRONICS TRINEAN DropSense-96 MULTI-CHANNEL SPECTROPHOTOMETER

Minimized Samples, Maximized Throughput for DNA/RNA and Protein Quantification

Benefits

CELL BIOLOGY

- Increased throughput
- No sample dilution96 samples measured in less than 6 min.
- Compatible with automated liquid-handling systems
- No manual, one-at-a-time sample loading
- No sample evaporation
- No cleaning
- · High reproducibility
- · Easy-to-use, intuitive software

Features

- UV-VIS full-spectrum measurements (220-750nm)
- Large dynamic range (5-3,800ng/µL dsDNA) no need for sample dilution
- 96-format droplet quantification (DropPlate 96)
- Unique patented optical spectrometer design combines cylindrical lenses with
 integrated optical elements, high-resolution gratings and ultra-sensitive photodiode array

The DropSense 96 comes with the DropQuant software with special features for quick and easy DNA/RNA quantification or for determining labeling efficiency. Multiple samples in the DropPlates can be read in just minutes, while nucleic acid concentrations or other measurements are provided at the touch of a button. Reports can be printed immediately to Excel sheets or Adobe files. Sample data can be imported and exported.



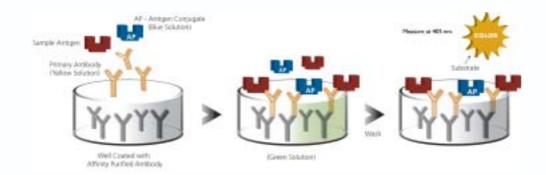
MJS BioLynx Inc.



HORMONE AND PROTEIN ELISAs



Assay Designs and Stressgen Bioreagents are now a part of ENZO[®] Life Sciences. ENZO[®] Life Sciences offers quality, rapid, and easy-to-use kits for quick, reliable and sensitive results. Most of these kits arrive complete and ready for use with colour-coded, liquid reagents. The kits come in three formats: Colourimetric (EIA), Chemiluminescent (CLIA) and Fluorometric (FPIA). The typical format for one of the EIA's is shown below. Alkaline Phosphatase (AP) is used as the detection enzyme because of its stability, turnover number and lack of interferences.



ENZO® LIFE SCIENCES PEPTIDE AND HORMONE ELISA KITS

Product			Range	Sensitivity			Pkg	
Number	Description	Specificity	(pg/mL)	(pg/mL)	Time	Туре	Size	Price
ENZ900008	17beta-Estradiol	non-specific	29.3-30,000	28.5	3 Hours	EIA	1 x 96 wells	\$324.70
ENZ901008	17beta-Estradiol	non-specific	29.3-30,000	28.5	3 Hours	EIA	5 x 96 wells	1,286.70
ENZ900017	Arg ⁸ Vasopressin	non-specific	4.10-1,000	3.39	Overnight	EIA	1 x 96 wells	403.70
ENZ901017	Arg ⁸ Vasopressin	non-specific	4.10-1,000	3.39	Overnight	EIA	5 x 96 wells	1,632.70
ENZ900097	Corticosterone	non-specific	32-20,000	27.0	3 Hours	EIA	1 x 96 wells	324.70
ENZ901097	Corticosterone	non-specific	32-20,000	27.0	3 Hours	EIA	5 x 96 wells	1,286.70
ENZ900071	Cortisol	non-specific	156-10,000	56.72	3 Hours	EIA	1 x 96 wells	324.70
ENZ901071	Cortisol	non-specific	156-10,000	56.72	3 Hours	EIA	5 x 96 wells	1,286.70
ENZ920071	Cortisol	non-specific	781-800,000	685	30 minutes	FPIA	100 Tests	266.60
ENZ907030	Creatinine	non-specific	0.31 - 20 mg/dL	0.019 mg/dL	. 30 minutes	EIA	2 x 96 wells	241.70
ENZ900093	DHEA	non-specific	12.21-50,000	2.9	5 Hours	EIA	1 x 96 wells	324.70
ENZ901093	DHEA	non-specific	12.21-50,000	2.9	5 Hours	EIA	5 x 96 wells	1,286.70
ENZ900100	Estriol	non-specific	122-500,000	59.6	3 Hours	EIA	1 x 96 wells	324.70
ENZ900026	Gastrin (1-17)	human	39.1-10,000	7.27	5 Hours	EIA	1 x 96 wells	403.70
ENZ901026	Gastrin (1-17)	human	39.1-10,000	7.27	5 Hours	EIA	5 x 96 wells	1,632.70
ENZ900149	Gastrin (1-17)	rat	78.1 - 5,000	78.1	5 Hours	EIA	1 x 96 wells	403.70
ENZ900150	IGF-I	human	187 - 6,000	48.5	4 hours	EIA	1 x 96 wells	506.80
ENZ900028A	Leptin	human	195-12,500	25.5	2 Hours	EIA	1 x 96 wells	484.00
ENZ900019A	Leptin	mouse	12.5-800	1.74	2 Hours	EIA	1 x 96 wells	484.00
ENZ900015A	Leptin	rat	56-3,600	46.7	2 Hours	EIA	1 x 96 wells	484.00
ENZ900115	Myeloperoxidase	human	390-12,500	0.13	< 3 Hours	EIA	1 x 96 wells	438.60
ENZ900142	Osteopontin	human	2,000-32,000	0.110	3 Hours	EIA	1 x 96 wells	512.90
ENZ900090A	Osteopontin	mouse	1,000-64,000	192.3	2 Hours	EIA	1 x 96 wells	512.90
ENZ900153	Oxytocin	non-specific	15.6-1,000	11.7	Overnight	EIA	1 x 96 wells	415.80
ENZ901153	Oxytocin	non-specific	15.6-1,000	11.7	Overnight	EIA	5 x 96 wells	1,655.50
ENZ900011	Progesterone	non-specific	15.62-500	8.57	3 Hours	EIA	1 x 96 wells	324.70
ENZ901011	Progesterone	non-specific	15.62-500	8.57	3 Hours	EIA	5 x 96 wells	1,286.70
ENZ900018	Substance P	non-specific	9.76-10,000	8.04	3 Hours	EIA	1 x 96 wells	380.90
ENZ901018	Substance P	non-specific	9.76-10,000	8.04	3 Hours	EIA	5 x 96 wells	1,587.20
ENZ900065	Testosterone	non-specific	7.81-2,000	5.67	3 Hours	EIA	1 x 96 wells	324.70
ENZ901065	Testosterone	non-specific	7.81-2,000	5.67	3 Hours	EIA	5 x 96 wells	1,286.70

Many more kits are available. Please inquire if you don't see what you are looking for.

CYTOKINE AND CHEMOKINE ELISAs

ENZO® LIFE SCIENCES CYTOKINE AND CHEMOKINE ELISA KITS

Product Number	Description	Specificity	Range (pg/mL)	Sensitivity (pg/mL)	Time	Pkg Size	Price
ENZ900141	Cytochrome c	human	28.13 - 900	6.03	3.25 hours	1 x 96 wells	\$597.90
ENZ900098	ERK1/2	phospho	62.5 - 2,000	38.3	3 hours	1 x 96 wells	597.90
ENZ900149	Gastrin	rat	78.1 - 5,000	78.1	5 hours	1 x 96 wells	403.70
ENZ900074	GRO/CINC-1	rat	4.7-300	1.99	2 hours	1 x 96 wells	563.00
ENZ900136	IFN-γ	human	25.6-1,000	<2	< 5 hours	1 x 96 wells	517.40
ENZ900137	IFN-γ	nouse	37 - 3,000	<10	4 hours	1 x 96 wells	517.40
ENZ900150	IGF-I	human	187 - 6,000	48.5	4 hours	1 x 96 wells	506.80
ENZ900130	IL-1ß	human	10.24-400	<1	< 4 hours	1 x 96 wells	506.80
ENZ900132	IL-1ß	mouse	15.6-1,000	<3	< 4 hours	1 x 96 wells	484.00
ENZ900131	IL-1ß	rat	25.6-2,500	<12	< 4 hours	1 x 96 wells	563.00
ENZ900118A	IL-2	human	7.81-500	2.0	< 3 hours	1 x 96 wells	484.00
ENZ900042	IL-2	mouse	7.81-1,000	3.12	< 4 hours	1 x 96 wells	499.20
ENZ900145	IL-4	human	10.24-400	<2	3 hours	1 x 96 wells	506.80
ENZ900043	IL-4	mouse	7.81-1,000	4.34	3 hours	1 x 96 wells	449.20
ENZ900033	IL-6	human	7.81-500	6.01	< 3 hours	1 x 96 wells	484.00
ENZ900045	IL-6	mouse	7.81-1,000	1.01	< 3 hours	1 x 96 wells	461.30
ENZ900156	IL-8	human	7.8-1,000	0.64	< 3 hours	1 x 96 wells	517.40
ENZ900036	IL-10	human	7.81-500	3.75	< 3 hours	1 x 96 wells	484.00
ENZ900148	IL-10	mouse	37-3,000	<12	5 hours	1 x 96 wells	484.00
ENZ900106	JNK(1/2)	phospho	125 - 4,000	75.8	3 hours	1 x 96 wells	506.80
ENZ900077	MCP-1	rat	50-1,600	20.45	2 hours	1 x 96 wells	563.00
ENZ900119	MEK1	phospho	187.5 - 6,000	85.2	3 hours	1 x 96 wells	506.80
ENZ900090A	Osteopontin	mouse	1,000 - 64,000	192.3	2 hours	1 x 96 wells	512.90
ENZ900005	PGE1	non-specific	4.88 - 5,000	5.58	3 hours	1 x 96 wells	393.00
ENZ900111	Survivin	human total	31.25 - 1,000	4	3 hours	1 x 96 wells	676.80
ENZ900155	TGF-ß1	human, mouse, rat, bovine	31.25 - 1,000	3.3	4 hours	1 x 96 wells	512.90
ENZ900099	TNF-α	human	15.63-1,000	8.43	4 hours	1 x 96 wells	484.00
ENZ900047	TNF-α	mouse	31.25-2,000	20.1	4 hours	1 x 96 wells	461.30
ENZ900086A	TNF-α	rat	31.3 - 2,000	12.0 - 26.7	3 hours	1 x 96 wells	563.00
ENZ900080	VEGF	human	15.6-1,000	14.04	overnight	1 x 96 wells	563.00

Antibodies and proteins for cytokine and chemokine research are also available, please contact tech@biolynx.ca for more information.

ENZO® LIFE SCIENCES HEAT SHOCK PROTEIN ELISA KITS

Product Number	Description	Specificity	Range (pg/mL)	Sensitivity (pg/mL)	Time	Pkg Size	Price
ENZEKS500 ENZ900170	Hsp27 Hsp27 (phospho-Ser15)	human human	390-25,000 31.25-1000	390 101.15	< 3 hours 3 hours	1 x 96 wells 1 x 96 wells	\$654.00 506.80
ENZ900165	(phospho-Ser78)	human	31.25-1000	4.30	3 hours	1 x 96 wells	506.80
ENZEKS600	Hsp60	human	3,125-100,000	3,125	< 3 hours	1 x 96 wells	654.00
ENZEKS700E ENZEKS725A ENZEIKS715	A Hsp70B'	human, mouse, rat human human, mouse, rat	780 - 50,000 156-10,000 200-12,500	200 60 90	<4.5 hours <4.5 hours <4.5 hours	1 x 96 wells 1 x 96 wells 1 x 96 wells	626.70 767.80 666.20
ENZEKS895	Hsp90α	human	0-4,000	50	< 3 hours	1 x 96 wells	767.80
ENZEKS650	Anti-human Hsp60 (IgG/A/M)	human	7,810-25,000	2,880	3.25 hours	1 x 96 wells	654.00
ENZEKS750	Anti-human Hsp70 (IgG/A/M)	human	31,250-1,000,000	6,790	3.25 hours	1 x 96 wells	654.00

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EICOSANOID AND OXYDATIVE STRESS ASSAYS

ENZO® LIFE SCIENCES EICOSANOID ASSAY KITS

Product			Range	Sensitivity			Pkg	
Number	Description	Specificity	(pg/mL)*	(pg/mL)*	Time	Туре	Size	Price
ENZ900004	6-keto-PGF1α	non-specific	3.2-50,000	1.40	< 3 hours	EIA	1 x 96 wells	\$364.10
ENZ901004	6-keto-PGF1α	non-specific	3.2-50,000	1.40	< 3 hours	EIA	5 x 96 wells	1,450.60
ENZ900091	8-iso-PGF2 α (direct)	non-specific	160-100,000	103.2	2 housr	EIA	1 x 96 wells	409.70
ENZ901091	8-iso-PGF2 α (direct)	non-specific	160-100,000	103.2	2 hours	EIA	5 x 96 wells	1,587.20
ENZ900010	8-iso-PGF2 α (regular)	non-specific	6.1-100,000	16.3	< 3 hours	EIA	1 x 96 wells	393.00
ENZ901010	8-iso-PGF2 α (regular)	non-specific	6.1-100,000	16.3	< 3 hours	EIA	5 x 96 wells	1,587.20
ENZ900012	9α,11β-PGF2α	non-specific	32-500,000	15.7	3 hours	EIA	1 x 96 wells	364.10
ENZ901012	9α,11β-PGF2α	non-specific	32-500,000	15.7	3 hours	EIA	5 x 96 wells	1,450.60
ENZ900092	11-dehydro-TXB2	non-specific	9.8-10,000	4.31	3 hours	EIA	1 x 96 wells	380.90
ENZ901092	11-dehydro-TXB2	non-specific	9.8-10,000	4.31	3 hours	EIA	5 x 96 wells	1,587.20
ENZ900050	12(S)-HETE	non-specific	195-50,000	146	5 hours	EIA	1 x 96 wells	409.70
ENZ901050	12(S)-HETE	non-specific	195-50,000	146	5 hours	EIA	5 x 96 wells	1,638.80
ENZ900108	13(S)-HODE	non-specific	3,900-1,000,000	1.6	4 hours	EIA	1 x 96 wells	409.70
ENZ901108	13(S)-HODE	non-specific	3,900-1,000,000	1.6	4 hours	EIA	5 x 96 wells	1,638.80
ENZ900051	15(S)-HETE	non-specific	78.1-20,000	69.21	overnight	EIA	1 x 96 wells	409.70
ENZ901051	15(S)-HETE	non-specific	78.1-20,000	69.21	overnight	EIA	5 x 96 wells	1,638.80
ENZ900023	15-d-PGJ2	non-specific	195-200,000	36.8	5 hours	EIA	1 x 96 wells	409.70
ENZ901023	15-d-PGJ2	non-specific	195-200,000	36.8	5 hours	EIA	5 x 96 wells	1,638.80
ENZ900094	COX-II (human)	human	2,150-137,500	0.249	2 hours	EIA	1 x 96 wells	581.10
ENZ907003	COX Activity	independent	7.5-60 units/mL	0.147 units/mL	_	Activity	1 x 96 wells	364.10
ENZ900070	Cysteinyl Leukotriene	non-specific	78.1-2,500	26.6	4 hours	EIA	1 x 96 wells	393.00
ENZ901070	Cysteinyl Leukotriene	non-specific	78.1-2,500	26.6	4 hours	EIA	5 x 96 wells	1,587.20
ENZ900141	Cytochrome c	human	28.13 - 900	6.03	3.25 hours	EIA	1 x 96 wells	597.90
ENZ900068	LTB4	non-specific	11.7-3,000	5.63	4 hours	EIA	1 x 96 wells	393.00
ENZ901068	LTB4	non-specific	11.7-3,000	5.63	4 hours	EIA	5 x 96 wells	1,587.20
ENZ900005	PGE1	non-specific	4.88-5,000	5.58	< 3 hours	EIA	1 x 96 wells	393.00
ENZ901005	PGE1	non-specific	4.88-5,000	5.58	< 3 hours	EIA	5 x 96 wells	1,587.20
ENZ900001	PGE2	non-specific	39.1-2,500	13.4	< 3 hours	EIA	1 x 96 wells	353.50
ENZ901001	PGE2	non-specific	39.1-2,500	13.4	< 3 hours	EIA	5 x 96 wells	1,411.20
ENZ910001	PGE2	non-specific	7.81-1,000	6.03	3 hours	CLIA	1 x 96 wells	393.00
ENZ930001	PGE2 (high sensitivity)	non-specific	7.8-1,000	8.26	overnight	EIA	1 x 96 wells	380.90
ENZ931001	PGE2 (high sensitivity)	non-specific	7.8-1,000	8.26	overnight	EIA	5 x 96 wells	1,587.20
ENZ920001	PGE2	non-specific	1,562-100,000	684	30 min.	FPIA	1 x 96 wells	266.60
ENZ900069	PGF2α	non-specific	3.05-50,000	6.71	< 3 hours	EIA	1 x 96 wells	353.50
ENZ901069	PGF2α	non-specific	3.05-50,000	6.71	< 3 hours	EIA	5 x 96 wells	1,411.20
ENZ907002	sPLA2	independent	5-80 units/mL	3.85 units/mL	40 min.	Activity	1 x 96 wells	380.90
ENZ900002	TXB2	non-specific	13.7-10,000	10.5	< 3 hours	EIA	1 x 96 wells	353.50
ENZ901002	TXB2	non-specific	13.7-10,000	10.5	< 3 hours	EIA	5 x 96 wells	1,411.20
ENZ900025	Urinary Prostacyclin	non-specific	7.81-2,000	6.58	< 3 hours	EIA	1 x 96 wells	393.00
ENZ901025	Urinary Prostacyclin	non-specific	7.81-2,000	6.58	< 3 hours	EIA	5 x 96 wells	1,587.20

* unless otherwise specified

ENZO® LIFE SCIENCES OXIDATIVE STRESS ASSAY KITS

Product Number	Description	Specificity	Range	Sensitivity	Time	Туре	Pkg Size	Price
ENZ907015	Hydrogen Peroxide	independent	106.25 - 3,400 ng/mL	51.25 ng/mL	—	Colourimetric Detection	1 x 96 wells	\$311.30
ENZ900115	Myeloperoxidase	human	0.195 - 12.5 ng/mL	Assay Buffer 13: 0.028 ng/mL	3 hours	EIA	1 x 96 wells	438.60
				Assay Buffer 31: 0.019 ng/mL				
ENZ917010	Nitric Oxide (NO ₂ /NO ₃)	independent	(Nitrite) 3.125 - 200 μmole/L;	(Nitrite) 0.222 μmole/L;	—	Detection	2 x 96 wells	255.10
			(Nitrate) 3.125 - 100 μmole/L	(Nitrate) 0.625 μmole/L				
ENZ917020	Nitric Oxide (total)	independent	3.125 - 100 μmole/L	0.625 μmole/L	—	Detection	2 x 96 wells	255.10

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STEM CELLS AND HUMAN BLOOD CELLS

Promo Cell

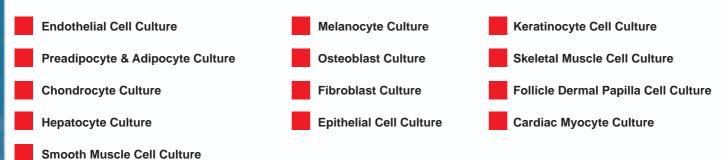
Promo Cell is Europe's leading manufacturer of human cell cultures.

They offer state-of the-art cell culture know-how and service for science, research and industry. Their strict controls and unrivalled logistics ensure top quality.

The following pages contain a selection of their specialty media. Classical media, reagents and biochemicals are also available – please contact our Technical Support Department (tech@biolynx.ca or 1-888-593-5969) for assistance in finding the product(s) you are looking for.

PROMOCELL NORMAL HUMAN CELL CULTURE

Since it is sometimes very difficult for laboratory scientists to obtain human tissue for isolation, and isolating some types of cells can be a very difficult and lengthy procedure, and many safety precautions must be taken to void the transfer of diseases. PromoCell has committed itself to making various normal human cells available to scientists.



Should you require another cell type, please contact our technical support department at tech@biolynx.ca and we would be very pleased to receive your request. Not only can a specific isolation be carried out at your request, but PromoCell would also then be able to further extend their range to include the types of cell that you, our customers request.

Below are some of their most popular Human Cell Cultures.

Product Number	Description	Pkg Size	Price
PROC12210	HDMEC-c - Normal Human Dermal Microvascular Endothelial Cells > 500,000 cryopreserved cells / 1 mL Cryo-SFM	1 vial	\$557.00
PROC12260	HDMEC-p - Normal Human Dermal Microvascular Endothelial Cells > 500.000 proliferating cells / T-25 flask	1 flask	557.00
PROC12001	NHEK.f-c - Normal Human Keratinocytes foreskin > 500,000 cryopreserved cells / 1 mL Cryo-SFM	1 vial	417.00
PROC12002	NHEK.f-p - Normal Human Keratinocytes foreskin > 500,000 proliferating cells / T-25 flask	1 flask	417.00
PROC12300	NHDF-c - Normal Human Dermal Fibroblasts > 500.000 cryopreserved cells / 1 mL Cryo-SFM	1 vial	427.00
PROC12350	NHDF-p - Normal Human Dermal Fibroblasts > 500.000 proliferating cells / T-25 flask	1 flask	425.00

PROMOCELL HUMAN STEM AND BLOOD CELLS

PromoCell offers a collection of adult stem cells as well as differentiated blood cells from normal human bone marrow, umbilical cord tissue, adipose tissue, and peripheral blood. All cells are obtained from approved donor programs at associated medical centers. High quality media that simulate the in vivo environment as well as optimized differentiation media systems are also available for these cell types.

PromoCell Mesenchymal Stem Cells — Normal Human Cells

Product Number	Description	Pkg Size	Price
PROC12977	hMSC-AT-c - Human Mesenchymal Stem Cells from Adipose Tissue > 500.000 cryopreserved cells / 1 mL Cryo-SFM	1 vial	\$570.00
PROC12978	hMSC-AT-p - Human Mesenchymal Stem Cells from Adipose Tissue > 500.000 proliferating cells / T-25 flask	1 flask	570.00
PROC12971	hMSC-UC-c - Human Mesenchymal Stem Cells from Umbilical Cord Matrix > 500.000 cryopreserved cells / 1 mL Cryo-SFM	1 vial	570.00
PROC12972	hMSU-UC-p - Human Mesenchymal Stem Cells from Umbilical Cord Matrix > 500.000 proliferating cells / T-25 flask	1 flask	570.00
PROC12974	hMSC-BM-c - Human Mesenchymal Stem Cells from Bone Marrow > 500.000 cryopreserved cells / 1 mL Cryo-SFM	1 vial	640.00
PROC12975	hMSC-BM-c - Human Mesenchymal Stem Cells from Bone Marrow > 500.000 proliferating cells / T-25 flask	1 flask	640.00

PromoCell CD34⁺ Progenitor Cells — Normal Human Cells

CD34⁺ is a cell surface glycoprotein, which functions as a cell-cell adhesion factor. It mediates the attachment of stem cells to stromal cells or to the bone marrow extracellular matrix. In addition, CD34⁺ is a known marker for hematopoietic and endothelial progenitor cells. Subpopulations of cells expressing CD34⁺ (CD34⁺ cells) are capable of differentiating into all types of blood cells and endothelial lineages both in vitro and in vivo. PromoCell offers optimized media, which support this differentiation. As the cells mature and differentiate, CD34⁺ expression is lost.

Product Number	Description	Pkg Size	Price
PROC12921	hCD34+-CB-c - Human CD34 ⁺ Progenitor Cells from Cord Blood > 100.000 cryopreserved cells	1 vial	\$376.00
PROC12924	hCD34+-CB-c pooled - Human CD34 ⁺ Progenitor Cells from Cord Blood pooled > 100.000 cryopreserved cells	1 vial	286.00

PromoCell Mononuclear Cells — Normal Human Cells

PromoCell Mononuclear Cells (MNC) represent the lymphocyte and monocyte fraction isolated from umbilical cord blood or peripheral blood of healthy adult donors. They are prepared by optimized low-density gradient centrifugation, which effectively reduces the granulocyte content. Instead of osmotic lysis, red blood cells are gently but thoroughly depleted by aggregation followed by gravity sedimentation. This results in ultra-pure mononuclear cells with superior viability and unchanged biological function. In addition, the cells do not clump after thawing and allow for easy handling and reproducible results. The MNC can be used directly for experiments, or as a starting material for the isolation of several cell types, e.g. hematopoietic and endothelial progenitors, monocytes, and lymphocyte subpopulations.

Product Number	Description	Pkg Size	Price
PROC12907	hMNC-PB-c - Human Mononuclear Cells from Peripheral Blood single donor ultra-pure, > 25 x 106 cryopreserved cells	1 vial	\$395.00
PROC12901	hMNC-CB-c - Human Mononuclear Cells from Cord Blood single donor ultra-pure, > 25 x 106 cryopreserved cells	1 vial	395.00
PROC12904	hMNC-CB-c pooled - Human Mononuclear Cells from Cord Blood pooled ultra-pure, > 25 x 106 cryopreserved cells	1 vial	357.00

CD133⁺ Progenitor Cells and CD14⁺ Monocytes and Pericytes are also available — please inquire.

CELL CULTURE MEDIA

PROMOCELL READY-TO-USE MEDIA

The PromoCell media for stem and blood cells are formulated for either the optimal growth of specific cell types or to support the differentiation into the respective mature cells. Each medium lot is tested for its ability to support growth or differentiation, respectively. In addition, biochemical and sterility tests are performed. The media for stem and blood cells contain no antibiotics. The Media (Ready-to-use) consist of a 100 mL or a 500 mL bottle with Basal Medium and a vial with Supplement Mix.

Product Number	Description	Pkg Size	Price
PROC28010	Mesenchymal Stem Cell Growth Medium — Ready-to-use	500 mL	\$158.00
PROC28011	Mesenchymal Stem Cell Adipogenic Differentiation Medium — Ready-to-use	100 mL	132.00
PROC28012	Mesenchymal Stem Cell Chondrogenic Differentiation Medium — Ready-to-use	100 mL	279.00
PROC28013	Mesenchymal Stem Cell Osteogenic Differentiation Medium — Ready-to-use	100 mL	132.00
PROC28025	Endothelial Progenitor Medium — Ready-to-use	100 mL	269.00
PROC28020	Hematopoietic Progenitor Medium — Ready-to-use	100 mL	68.00
PROC28030	Mononuclear Cell Medium — Ready-to-Use	500 mL	151.00

PROMOCELL DETACH KITS

PromoCell's Detach Kit contains all solutions which are necessary for optimal subcultivation of normal human cells. This facilitates fast and easy cultivation of Normal Human Cells.

Product Number	Description	Pkg Size	Price
PROC41200	Detach Kit-30 Includes: HepesBSS (PROC40000), 30mL Trypsin/EDTA (PROC41000), 30mL Trypsin Neutralizing Solution (TNS) (PROC41100), 30mL	Kit	\$34.00

PROMOCELL MEDIA FOR INSECT CELLS, BHK, CHO, HYBRIDOMA AND LYMPHOCYTES

The rapid and exciting expansion of cell biology to produce novel proteins requires a new generation of cell culture media: serum-free and protein-free media.

Serum normally has to be added to cell culture media. It has multiple positive functions; e.g. it may serve as a source of nutrients. However, serum has quite a lot of disadvantages: lot-to-lot-variability and serum increases the complexity of the downstream processing of the desired biological material.

PromoCell's "Express" line of media are tailor made to satisfy the needs of researchers working at this cutting edge of science. Media for the cultivation of CHO, BHK, hybridoma and insect cells all have "Express" status, being fully defined with serum-free and protein-free versions.

PromoCell Media for Insect Cells for Serum Requiring Culture

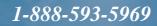
Product Number	Description	Pkg Size	Price
PROC77010	Grace's Insect TC Medium, w/o L-Glutamine	500 mL	\$24.00
	Grace's Medium has always been a popular medium for insect cell culture. The medium was formulated to resemble the chemical composition of the hemolymph from Bombyx mori.		
PROC77110	Mitsuhashi/Maramorosh Insect Medium	500 mL	19.00
	Mitsuhashi and Maramorosh Basal Medium is suited for mosquito cell culture. The complete medium has to be supplemented with FCS prior to use.		
PROC77210	Schneider's Drosophila Medium, w/o L-Glutamine	500 mL	26.00
	This Medium was originally developed for the culture of drosophila cells. It can also be used for the culture of other dipteran cell lines.		

PromoCell BHK Cell Culture Medium

SFC-10 and SFC-20 BHK Express are fully defined media that can be used for the cultivation of BHK cells. They are especially suited to cultivate cells producing recombinant proteins. SFC-10 is a serum-free formulation containing 30 mg / L protein.

Product Number	Description	Pkg Size	Price
PROC78720	SFC-20 BHK Express, protein-free, w/o L-Glutamine	500 mL	\$42.00
PROC78710	SFC-10 BHK Express, serum-free, w/o L-Glutamine	500 mL	42.00

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PROMOCELL MEDIA FOR INSECT CELLS, BHK, CHO, HYBRIDOMA AND LYMPHOCYTES (Cont'd)

PromoCell TB-1 Clonal Express Lymphocyte Medium

TB-1 Clonal Express Lymphocyte Medium is a completely defined, serum-free medium supplemented with albumin, transferrin, lecithin, ethanolamine and some fatty acids. Furthermore, it contains selenium, pyruvate, potassium nitrate, additional amino acids, vitamins and supplements.

Product Number	Description	Pkg Size	Price
PROC78610	TB-1 Clonal Express Lymphocyte Medium serum-free, w/o L-Glutamine	500 mL	\$57.00

PromoCell CHO Cell Culture Media

CHO Express Media have been developed for the serum-free formulations SFC-30 and SFC-50 cultivation of Chinese Hamster Ovary (CHO) cells and can be used especially to cultivate cells producing recombinant proteins. Protein-free formulations SFC-60 and SFC-70.

Product Number	Description	Pkg Size	Price
PROC78560	SFC-60 CHO Express, protein-free CHO medium, w/o L-Glutamine	500 mL	\$41.00
PROC78570	SFC-70 CHO Express, protein-free CHO medium, w/o L-Glutamine	500 mL	41.00
PROC78530	SFC-30 CHO Express, serum-free CHO medium, w/o L-Glutamine	500 mL	41.00
PROC78550	SFC-50 CHO Express, serum-free CHO medium, w/o L-Glutamine	500 mL	41.00

PromoCell Hybridoma Cell Culture Media

Hybridoma Growth Medium 7 (protein free) and Hybridoma Growth Medium 6 (Serum-free) are fully defined media that can be used for the cultivation of various different hybridomas. The media are available with or without phenolred to prevent interference of the dye with chromogenic assays.

Product Number	Description	Pkg Size	Price
PROC78440	Hybridoma Growth Medium 7 Express, protein-free, with L-Glutamine	500 mL	\$55.00
PROC78447	Hybridoma Growth Medium 7 Express, w/o phenol red, protein-free, with L-Glutamine	500 mL	55.00
PROC78410	Hybridoma Growth Medium 6 Express, serum-free, with L-Glutamine	500 mL	42.00
PROC78417	Hybridoma Growth Medium 6 Express, w/o phenol red, serum-free, with L-Glutamine	500 mL	42.00

PromoCell Reagents and Biochemicals

PromoCell offers a broad range of media reagents and biochemicals typically utilized in cell culture work:

Growth supplements for growth promotion of low serum and serum-free cell culture media

Salt solutions and buffers routinely used in daily cell culture work like wash steps and tissue transport

Antibiotics and Antimycotics in different concentrations and combinations for usage in cell culture

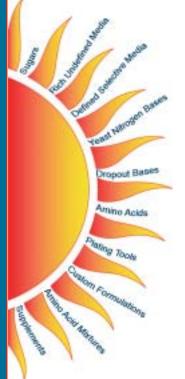
Vitamins, amino acids and buffer supplements for the enrichment of media beyond their normal concentrations

Trypsin solutions for tissue and cell dissociation are available in different concentrations as well as trypsin neutralizing solutions

Please contact our Technical Support Department at 1-888-593-5969 or tech@biolynx.ca for assistance in finding the product(s)you are looking for.

Yeast Media Products







Selective Media

The easiest way to order defined media is to purchase complete pre-mixed formulations. Synthetic Defined Media Broth (SD) and Agar (SDA) contain Yeast Nitrogen Base (YNB), Nitrogen, Dextrose, and your choice of an amino acid dropout mix based on the Complete Supplement Mixture (CSM) formulation.

Sunrise offers even more flexibility, purchase a Dropout Base (DOB) and change the amino acid combination. If more variation is necessary, materials are available to meet your every need.

Complete Selective Media		
• SD/SDA	• EMM	• MMA
Descent Descet		
Dropout Bases*		
• YNB	• YNB+N ₂	• DOB
Amino Acid Dropout Mixtures*		
 Complete Supplement Mixture Hollenburg Supplement Mixture 	e (CSM) • Synthetic Irre (HSM) • Brent Sup	Complete Mixture (SC) plement Mixture (BSM)
Undefined Growth Media		
• YPD	• AHC	• MV
YPADYES	SporulationMF	• YEP • YKAC
• 125		• TRAC
Components and Supplements		
Glucose	• 5-FOA	Amino Acids
Galactose	Adenine	Inositol
 Raffinose 3-AT	• Agar	• Uracil
Plating Tools —		
 Replica plating apparatus and EZ-Plate[™] Beads for even cold Re-usable EZ-Grid[™] colony te 	ony distribution	

* Please visit www.sunrisescience.com for a complete listing of variations



Acronyms used by Sunrise Science Products

"YNB+Nitrogen": At Sunrise Science Products, they define "YNB" as the salts, vitamins and trace elements that form a base to which nitrogen can be added. Unless their product name says "+Nitrogen", there is no nitrogen in the product.

"Sugar": Typically, this is glucose/dextrose. They also carry dropout bases (DOB) that use galactose, raffinose, or both instead of glucose.

"Amino Acids": The most common two mixtures they carry are the CSM and SC amino acid mixtures. They also carry HSM and BSM mixtures, and can make custom versions also. Each type of mixture contains amino acids in varying concentrations, and not all may be present in each mixture.

"Complete Synthetic Defined Media": At Sunrise Science Products, their complete synthetic defined media is named "SD" (or "SDA" if it contains agar). The SD/SDA formulations use their standard YNB, nitrogen, glucose, and the CSM version of amino acid mixture.

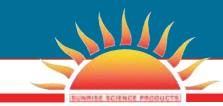
"Dropout Base": At Sunrise Science Products, dropout bases are named "DOB" (or "DOBA" if it contains agar). The DOB/ DOBA formulations use their standard YNB, nitrogen and glucose. They also have DOB/DOBA formulations with Raffinose, Galactose, or both.

AA Dropout Formulation Table

CSM = Complete Supplement Mixture SC = Synthetic Complete/Hopkins Mixture HSM = Hollenberg Supplement Mixture BSM = Brent Supplement Mixture

Component in mg/L	CSM	HSM	BSM	SC
Adenine	10	100	40	21
L-Alanine	0	0	0	85.6
L-Arginine	50	100	20	85.6
L-Asparagine	0	0	0	85.6
L-Aspartic Acid	80	50	100	85.6
L-Cysteine	0	100	0	85.6
Glutamine	0	0	0	85.6
L-Glutamic Acid	0	0	100	85.6
Glycine	0	0	0	85.6
L-Histidine	20	50	20	85.6
Myo-Inositol	0	0	0	85.6
L-Isoleucine	50	50	300	85.6
L-Leucine	100	100	60	173.4
L-Lysine	50	100	30	85.6
L-Methionine	20	50	20	85.6
Para-AminoBenzoic Acid (PABA)	0	0	0	8.6
L-Phenylalenine	50	50	50	85.6
L-Proline	0	50	0	85.6
L-Serine	0	50	375	85.6
L-Threonine	100	100	200	85.6
L-Tryptophan	50	100	40	85.6
L-Tyrosine	50	50	30	85.6
Uracil	20	100	20	85.6
L-Valine	140	50	150	85.6

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SUNRISE COMPLETE SUPPLEMENT MIXTURE (CSM)

Product Number	Description	Pkg Size	Price	Product Number	Description	Pkg Size	Price
SN1210010	CSM + 1mg/mL FOA Powder	10 g	\$966.00	SN1098010	CSM-Arg-Met Powder	10 g	\$ 80.50
SN1001010	CSM Powder	10 g	54.70	SN1098100	CSM-Arg-Met Powder	100 g	621.10
SN1001100	CSM Powder	100 g	332.10	SN1079010	CSM-Arg-Trp Powder	10 g	54.70
SN1029010	CSM-Ade Powder	10 g	54.70	SN1079100	CSM-Arg-Trp Powder	100 g	332.10
	CSM-Ade Powder	100 g	332.10	SN1080010	CSM-Arg-Trp-Ura Powder	10 g	54.70
	CSM-Ade-Arg-His-Ura Powder	10 g	54.70	SN1080100	CSM-Arg-Trp-Ura Powder	100 g	332.10
	CSM-Ade-Arg-His-Ura Powder	100 g	332.10	SN1022010	CSM-Arg-Ura Powder	10 g	54.70
	CSM-Ade-His Powder	10 g	54.70	SN1022100	CSM-Arg-Ura Powder	100 g	332.10
	CSM-Ade-His Powder	100 g	332.10	SN1046010	CSM-Asp Powder	10 g	54.70
	CSM-Ade-His-Leu Powder	10 g	54.70	SN1046100	CSM-Asp Powder	100 g	332.10
	CSM-Ade-His-Leu Powder CSM-Ade-His-Leu-Lys Powder	100 g 10 g	332.10 54.10	SN1006010 SN1006100	CSM-His Powder CSM-His Powder	10 g	54.70
	CSM-Ade-His-Leu-Lys Powder	100 g	332.10	SN1123010	CSM-His+Ade20 Powder	100 g 10 g	332.10 54.70
	CSM-Ade-His-Leu-Lys-Trp Powder	10 g	54.70	SN1123100	CSM-His+Ade20 Powder	100 g	332.10
	CSM-Ade-His-Leu-Lys-Trp Powder	100 g	332.10	SN1023010	CSM-His+Ade40 Powder	10 g	54.70
	CSM-Ade-His-Leu-Lys-Trp-Ura Powder	10 g	54.70	SN1023100	CSM-His+Ade40 Powder	100 g	332.10
	CSM-Ade-His-Leu-Lys-Trp-Ura Powder	•	332.10	SN1011010	CSM-His-Leu Powder	10 g	54.70
SN1026010	CSM-Ade-His-Leu-Met-Trp-Ura Powder	10 g	80.50	SN1011100	CSM-His-Leu Powder	100 g	332.10
SN1026100	CSM-Ade-His-Leu-Met-Trp-Ura Powder	100 g	621.10	SN1110010	CSM-His-Leu+Ade40 Powder	10 g	54.70
	CSM-Ade-His-Leu-Trp Powder	10 g	54.70	SN1110100	CSM-His-Leu+Ade40 Powder	100 g	332.10
SN1027100	CSM-Ade-His-Leu-Trp Powder	100 g	332.10	SN1044010	CSM-His-Leu-Lys Powder	10 g	54.70
	CSM-Ade-His-Leu-Trp-Ura Powder	10 g	54.70	SN1044100	CSM-His-Leu-Lys Powder	100 g	332.10
	CSM-Ade-His-Leu-Trp-Ura Powder	100 g	332.10	SN1150010	CSM-His-Leu-Lys-Met-Trp-Ura Powder	10 g	80.50
	CSM-Ade-His-Leu-Ura Powder	10 g	54.70	SN1150100	CSM-His-Leu-Lys-Met-Trp-Ura Powder	100 g	621.10
	CSM-Ade-His-Leu-Ura Powder	100 g	332.10	SN1091010	CSM-His-Leu-Lys-Trp Powder	10 g	54.70
	CSM-Ade-His-Met Powder	10 g	80.50	SN1091100	CSM-His-Leu-Lys-Trp Powder	100 g	332.10
	CSM-Ade-His-Met Powder CSM-Ade-His-Trp Powder	100 g 10 g	621.10 54.70	SN1086010	CSM-His-Leu-Lys-Trp-Ura Powder	10 g	54.70
	CSM-Ade-His-Trp Powder	100 g	332.10	SN1086100 SN1144010	CSM-His-Leu-Lys-Trp-Ura Powder CSM-His-Leu-Met Powder	100 g 10 g	332.10 80.50
	CSM-Ade-Leu Powder	10 g	54.70	SN1144010	CSM-His-Leu-Met Powder	100 g	621.10
	CSM-Ade-Leu Powder	100 g	332.10	SN1094010	CSM-His-Leu-Met-Trp Powder	10 g	80.50
	CSM-Ade-Leu-Met Powder	10 g	80.50	SN1094100	CSM-His-Leu-Met-Trp Powder	100 g	621.10
SN1138100	CSM-Ade-Leu-Met Powder	100 g	621.10	SN1095010	CSM-His-Leu-Met-Trp-Ura Powder	10 g	80.50
SN1025010	CSM-Ade-Leu-Trp Powder	10 g	54.70	SN1095100	CSM-His-Leu-Met-Trp-Ura Powder	100 g	621.10
SN1025100	CSM-Ade-Leu-Trp Powder	100 g	332.10	SN1145010	CSM-His-Leu-Met-Ura Powder	10 g	80.50
	CSM-Ade-Leu-Trp-Ura Powder	10 g	54.70	SN1145100	CSM-His-Leu-Met-Ura Powder	100 g	621.10
	CSM-Ade-Leu-Trp-Ura Powder	100 g	332.10	SN1014010	CSM-His-Leu-Trp Powder	10 g	54.70
	CSM-Ade-Leu-Ura Powder	10 g	54.70	SN1014100	CSM-His-Leu-Trp Powder	100 g	332.10
	CSM-Ade-Leu-Ura Powder	100 g	332.10	SN1030010	CSM-His-Leu-Trp+Ade40 Powder	10 g	54.70
	CSM-Ade-Met-Trp-Ura Powder	10 g	80.50	SN1030100	CSM-His-Leu-Trp+Ade40 Powder	100 g	332.10
	CSM-Ade-Met-Trp-Ura Powder CSM-Ade-Met-Ura Powder	100 g 10 g	621.10 80.50		CSM-His-Leu-Trp-Ura Powder	10 g	54.70
	CSM-Ade-Met-Ura Powder	100 g	621.10	SN1002500	CSM-His-Leu-Trp-Ura Powder CSM-His-Leu-Trp-Ura Powder	100 g	332.10 1,439.60
	CSM-Ade-Trp Powder	10 g	54.70	SN1015010	CSM-His-Leu-Ura Powder	10 g	54.70
	CSM-Ade-Trp Powder	100 g	332.10		CSM-His-Leu-Ura Powder	100 g	332.10
	CSM-Ade-Trp-Ura Powder	10 g			CSM-His-Lys Powder		54.70
	CSM-Ade-Trp-Ura Powder	100 g	332.10		CSM-His-Lys Powder	100 g	332.10
SN1036010	CSM-Ade-Ura Powder	10 g	54.70	SN1156010	CSM-His-Lys-Trp Powder	10 g	54.70
	CSM-Ade-Ura Powder	100 g	332.10	SN1156100	CSM-His-Lys-Trp Powder	100 g	332.10
	CSM-Arg Powder	10 g	54.70	SN1088010	CSM-His-Lys-Trp-Ura Powder	10 g	54.70
	CSM-Arg Powder	100 g	332.10	SN1088100	CSM-His-Lys-Trp-Ura Powder	100 g	332.10
	CSM-Arg-His Powder	10 g	54.70	SN1155010	CSM-His-Lys-Ura Powder	10 g	54.70
	CSM-Arg-His Powder	100 g	332.10	SN1155100	CSM-His-Lys-Ura Powder	100 g	332.10
	CSM-Arg-His-Lys Powder	10 g	54.70 332.10	SN1099010	CSM-His-Met Powder	10 g	80.50
	CSM-Arg-His-Lys Powder CSM-Arg-His-Lys-Ura Powder	100 g 10 g	332.10	SN1099100	CSM-His-Met-Tro-Ura Powder	100 g	621.10
	CSM-Arg-His-Lys-Ura Powder	100 g	54.70 332.10	SN1147010 SN1147100	CSM-His-Met-Trp-Ura Powder CSM-His-Met-Trp-Ura Powder	10 g 100 g	80.50 621.10
	CSM-Arg-His-Ura Powder	100 g	54.70	SN1147100 SN1100010	CSM-His-Met-Ura Powder	100 g	80.50
	CSM-Arg-His-Ura Powder	100 g	332.10	SN1100100	CSM-His-Met-Ura Powder	100 g	621.10
	CSM-Arg-Leu Powder	10 g	54.70	SN1013010	CSM-His-Trp Powder	10 g	54.70
	CSM-Arg-Leu Powder	100 g	332.10	SN1013100	CSM-His-Trp Powder	100 g	332.10
	CSM-Arg-Leu-Lys-Ura Powder	10 g	54.70	SN1111010	CSM-His-Trp+Ade40 Powder	10 g	54.70
	CSM-Arg-Leu-Lys-Ura Powder	100 g	332.10	SN1111100	CSM-His-Trp+Ade40 Powder	100 g	332.10
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SN1041010	CSM-Arg-Leu-Ura Powder CSM-Arg-Leu-Ura Powder	10 g	54.70	SN1016010	CSM-His-Trp-Ura Powder	10 g	54.70



SUNRISE COMPLETE SUPPLEMENT MIXTURE (CSM) (Cont'd)

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Product		Pkg	
Number	Description	Size	Price
SN1053010	CSM-His-Tyr Powder	10 g	\$54.70
SN1009010	CSM-His-Ura Powder	10 g	54.70
SN1009100	CSM-His-Ura Powder	100 g	332.10
SN1112010	CSM-His-Ura+Ade40 Powder	10 g	54.70
SN1112100	CSM-His-Ura+Ade40 Powder	100 g	332.10
SN1048010	CSM-lle Powder	10 g	54.70
SN1048100	CSM-lle Powder	100 g	332.10
SN1005010	CSM-Leu Powder	10 g	54.70
SN1005100	CSM-Leu Powder	100 g	332.10
SN1101010	CSM-Leu+Ade40 Powder	10 g	54.70
SN1101100	CSM-Leu+Ade40 Powder	100 g	332.10
SN1033010	CSM-Leu+Ade5 Powder	10 g	54.70
SN1033100	CSM-Leu+Ade5 Powder	100 g	332.10
SN1043010	CSM-Leu-Lys Powder	10 g	54.70
SN1043100	CSM-Leu-Lys Powder	100 g	332.10
SN1093010	CSM-Leu-Met Powder	10 g	80.50
SN1093100	CSM-Leu-Met Powder	100 g	621.10
SN1021010	CSM-Leu-Met-Trp Powder	10 g	80.50
SN1021100	CSM-Leu-Met-Trp Powder	100 g	621.10
SN1097010	CSM-Leu-Met-Trp-Ura Powder	10 g	80.50
SN1097100	CSM-Leu-Met-Trp-Ura Powder	100 g	621.10
SN1146010	CSM-Leu-Met-Ura Powder	10 g	80.50
SN1146100	CSM-Leu-Met-Ura Powder	100 g	621.10
SN1170010	CSM-Leu-Thr-Trp Powder	10 g	54.70
SN1170100	CSM-Leu-Thr-Trp Powder	100 g	332.10
SN1169010	CSM-Leu-Thr-Trp-Ura Powder	10 g	54.70
SN1169100	CSM-Leu-Thr-Trp-Ura Powder	100 g	332.10
SN1012010	CSM-Leu-Trp Powder	10 g	54.70
SN1012100	CSM-Leu-Trp Powder	100 g	332.10
SN1115010	CSM-Leu-Trp+Ade40 Powder	10 g	54.70
SN1115100	CSM-Leu-Trp+Ade40 Powder	100 g	332.10
SN1017010	CSM-Leu-Trp-Ura Powder	10 g	54.70
SN1017100	CSM-Leu-Trp-Ura Powder	100 g	332.10
SN1038010	CSM-Leu-Ura Powder	10 g	54.70
SN1038100	CSM-Leu-Ura Powder	100 g	332.10
SN1113010	CSM-Leu-Ura+Ade40 Powder	10 g	54.70
SN1113100	CSM-Leu-Ura+Ade40 Powder	100 g	332.10
SN1032010	CSM-Lys Powder	10 g	54.70
SN1032100	CSM-Lys Powder	100 g	332.10
SN1035010	CSM-Lys-Met Powder	10 g	80.50
		-	

SUNRISE YEAST PEPTONE DEXTROSE (YPD)

Product Number	Description	Pkg Size	Price
SN1875019	YPD Medium, Sterile	500 mL	\$66.20
SN1875025	YPD Powder	25 g	24.40
SN1875100	YPD Powder	100 g	33.10
SN18751KG	YPD Powder	1 kg	160.60
SN1875250	YPD Powder	250 g	50.30
SN1875400	YPD Powder	10 x 1 L Pouches	115.60
SN1875500	YPD Powder	500 g	90.90
SN1876025	YPD Agar	25 g	24.40
SN18761KG	YPD Agar	1 kg	183.40
SN1876250	YPD Agar	250 g	50.70
SN1876500	YPD Agar	500 g	100.00

SUNRISE BRENT SUPPLEMENT MIXTURE (BSM)

Product Number	Description	Pkg Size	Price
SN1382025 SN1383100	BSM-Ura Powder BSM-His-Leu-Lys-Trp-Ura+lle30 Powder	25 g 100 g	\$65.30 235.20
SN1384025	BSM-Iso-Ura Powder	25 g	65.30

SUNRISE HOLLENBERG SUPPLEMENT MIXTURE (HSM)

Product Number	Description	Pkg Size	Price
SN1410100	HSM Powder	100 g	\$538.50
SN1421100	HSM-His-Leu-Lys-Trp-Ura Powder	100 g	538.50
SN1424100	HSM-Ade-Ura Powder	100 g	538.50
SN1417100	HSM-His-Lys-Trp-Ura Powder	100 g	538.50
SN1418100	HSM-Lys-Trp-Ura Powder	100 g	538.50
SN1419100	HSM-Leu-Lys-Ura Powder	100 g	538.50
SN1420100	HSM-Leu-Lys-Trp-Ura Powder	100 g	538.50

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SUNRISE SYNTHETIC COMPLETE MIXTURE (SC)

Product Number	Description	Pkg Size	Price
SN1381030	SC + 1mg/mL FOA Powder	30 g \$ ⁻	1,675.30
SN1300030	SC Powder	30 g	180.80
SN1301030	SC-Ade-His-Leu-Trp-Ura Powder	30 g	180.80
SN1302030	SC-Ade Powder	30 g	180.80
SN1303030	SC-His Powder	30 g	180.80
SN1304030	SC-Leu Powder	30 g	180.80
SN1305030	SC-Trp Powder	30 g	180.80
SN1306030	SC-Ura Powder	30 g	180.80
SN1307030	SC-Lys Powder	30 g	180.80
SN1309030	SC-His-Ura Powder	30 g	180.80
SN1310030	SC-Ade-His Powder	30 g	180.50
SN1311030	SC-Ade-Leu Powder	30 g	180.50
SN1312030	SC-Ade-Trp Powder	30 g	180.50
SN1313030	SC-Ade-Ura Powder	30 g	180.50
SN1314030	SC-His-Leu Powder	30 g	180.50
SN1315030	SC-His-Trp Powder	30 g	180.50
SN1316030	SC-Trp-Ura Powder	30 g	180.50
SN1317030	SC-Leu-Trp Powder	30 g	180.50
SN1318030	SC-Leu-Ura Powder	30 g	180.50
SN1319030	SC-Cys-Met Powder	30 g	193.50
SN1324030	SC-His-Leu-Met Powder	30 g	193.50
SN1325030	SC-His-Leu-Trp Powder	30 g	180.50
SN1326030	SC-His-Trp-Ura Powder	30 g	180.50
SN1327030	SC-His-Leu-Ura Powder	30 g	180.50
SN1328030	SC-Leu-Trp-Ura Powder	30 g	180.50
SN1330030	SC-Ade-His-Leu-Trp Powder	30 g	180.50
SN1331030	SC-Ade-His-Leu-Ura Powder	30 g	180.50
SN1332030	SC-Ade-His-Trp-Ura Powder	30 g	180.50
SN1333030	SC-Ade-Leu-Trp-Ura Powder	30 g	180.50
SN1334030	SC-His-Leu-Trp-Ura Powder	30 g	180.50
SN1335030	SC-Cys-Leu-Met-Ura Powder	30 g	180.50
SN1336030	SC-His-Leu-Lys-Trp-Ura Powder	30 g	180.50
SN1340030	SC-Arg-Glu-Lys Powder	30 g	180.50
SN1341030	SC-Arg-His-Leu Powder	30 g	180.50
SN1342030	SC-Arg-His-Leu-Ura Powder	30 g	180.50
SN1343030	SC-Met Powder	30 g	193.50
SN1344030	SC-Met-Ura Powder	30 g	193.50
SN1350030	SC-Cys-His-Leu-Met-Ura Powder	30 g	193.50

SUNRISE RICH/UNDEFINED MEDIA

SUNRISE YES MEDIUM

Product		Pka	
Number	Description	Pkg Size	Price
SN20091Kg SN2009250 SN2009300 SN2009400 SN2009500 SN20101Kg	YES 225 Agar Powder YES 225 Agar Powder YES 225 Powder YES 225 Powder YES 225 Powder YES 225 Powder YES 50 Agar Powder	1 kg 250 g 10 x 0.5 L Pouches 10 x 1 L Pouches 500 g 1 kg	\$165.60 54.70 48.00 89.60 84.40 192.20
SN2010250 SN2010300 SN2010400 SN2010500 SN20111KG SN20112500 SN20121KG SN2012500	YES 50 Agar Powder YES 50 Agar Powder YES 50 Agar Powder YES 50 Agar Powder YES 50 Powder YES 50 Powder YES 50 Powder YES 50 Powder YES 50 Powder	250 g 10 x 0.5 L Pouches 10 x 1 L Pouches 500 g 1 kg 250 g 500 g 1 kg 500 g	57.30 52.00 103.00 107.80 165.60 54.70 84.40 192.20 107.80

MEDIA FOR S. POMBE — SUNRISE COMPLETE DEFINED MEDIA

SUNRISE EDINBURGH MINIMAL MEDIUM (EMM)

Product Number	Description	Pkg Size	Price
SN2019250	EMM Low Glucose Powder	250 g	\$153.00
SN20051Kg	EMM Powder	1 kg	367.10
SN20052KG	EMM Powder	2 kg	703.60
SN2005250	EMM Powder	250 g	128.60
SN2005500	EMM Powder	500 g	240.30
SN2005300	EMM 10 x 0.5 L F	Pouches	102.60
SN2005400	EMM 10 x 1 L F	Pouches	205.20
SN2020500	EMM-Dextrose Powder	500 g	223.80
SN2022250	EMM-Inositol Powder	250 g	128.60
SN20231KG	EMM-Nitrogen Powder	1 kg	355.00
SN2023250	EMM-Nitrogen Powder	250 g	129.00
SN2023500	EMM-Nitrogen Powder	500 g	232.70
SN2021250	EMM-Sodium Phosphate Powder	250 g	127.30
SN2021500	EMM-Sodium Phosphate Powder	500 g	222.60
SN20061KG	EMM Agar Powder	1 kg	393.60
SN2006500	EMM Agar Powder	500 g	251.60
SN20321KG	EMM Agar+Ade+His+Lys Powder	1 kg	480.60

SUNRISE MB MEDIUM

Product Number	Description	Pkg Size	Price
SN2016250	MB Medium Powder	250 g	\$192.20

SUNRISE MMA MINIMAL MEDIUM

Product Number	Description	Pkg Size	Price
SN20151Kg	MMA Agar Powder	1 kg	\$342.90
SN2015250	MMA Agar Powder	250 g	101.30
SN2015300	MMA Agar Powder	10 x 0.5 L Pouches	77.90
SN2015400	MMA Agar Powder	10 x 1 L Pouches	154.60
SN2015500	MMA Agar Powder	500 g	192.20

SUNRISE SP SUPPLEMENTS

Product Number	Description	Pkg Size	Price
SN2200010	SP Complete Supplements	10 g	\$30.20
SN2200100	SP Complete Supplements	100 g	220.00
SN2201010	SP-Leu-Ura Supplements	10 g	30.20
SN2201100	SP-Leu-Ura Supplements	100 g	220.00
SN2202010	SP-Lys Supplements	10 g	30.20
SN2202100	SP-Lys Supplements	100 g	220.00
SN2203010	SP-Leu Supplements Powder	10 g	30.20
SN2203100	SP-Leu Supplements Powder	100 g	220.00





MEDIA FOR S. CERVISIAE — SUNRISE COMPLETE DEFINED MEDIA (YNB + NITROGEN + DEXTROSE + AAs

SUNRISE SYNTHETIC DEFINED MEDIA

Product		Dire		Product		Dka	
Product Number	Description	Pkg Size	Price	Product Number	Description	Pkg Size	Price
SN1789050	SD-Leu-Ura-Dextrose F	Powder 50 g	\$71.40	SN1725300	SD-His-Leu-Trp Powder 10 x 0.5 L Pou	uches	\$111.70
SN1701300	SD Powder	10 x 0.5 L Pouches	111.70	SN1725500		500 g	332.10
SN1701500	SD Powder	500 g	332.10	SN1726300	SDA-His-Leu-Trp Powder 10 x 0.5 L Pou		177.00
SN1702300	SDA Powder	10 x 0.5 L Pouches	177.00	SN1726500		500 g	338.10
SN1702500	SDA Powder	500 g	338.10	SN1727300	SD-His-Leu-Ura Powder 10 x 0.5 L Pou		111.70
SN1703010 SN1703300	SD-Ura Powder SD-Ura Powder	10 g 10 x 0.5 L Pouches	24.40 111.70	SN1727500 SN1728300	SD-His-Leu-Ura Powder SDA-His-Leu-Ura Powder 10 x 0.5 L Pou	500 g	332.10 177.00
SN1703400	SD-Ura Powder	10 x 1 L Pouches	219.50	SN1728500		500 g	338.10
SN1703500	SD-Ura Powder	500 g	332.10	SN1729300	SD-Leu-Trp-Ura Powder 10 x 0.5 L Pou		111.70
SN1704010	SDA-Ura Powder	10 g	24.40	SN1729400	SD-Leu-Trp-Ura Powder 10 x 1 L Pou		219.50
SN1704300	SDA-Ura Powder	10 x 0.5 L Pouches	177.00	SN1729500	SD-Leu-Trp-Ura Powder	500 g	332.10
SN1704500	SDA-Ura Powder	500 g	338.10	SN1730300	SDA-Leu-Trp-Ura Powder 10 x 0.5 L Pou	uches	177.00
SN1705300	SD-His Powder	10 x 0.5 L Pouches	111.70	SN1730500	•	500 g	338.10
SN1705500	SD-His Powder	500 g	332.10	SN1731300	SD-His-Leu-Trp-Ura 10 x 0.5 L Pou	uches	111.70
SN1706010	SDA-His Powder	10 g	24.40	014704500	Powder	500 m	222.40
SN1706300 SN1706500	SDA-His SDA-His Powder	10 x 0.5 L Pouches	177.00	SN1731500 SN1732300	•	500 g	332.10 177.00
SN1706500 SN1707010	SDA-His Powder	500 g 10 g	338.10 24.40	311732300	SDA-His-Leu-Trp-Ura 10 x 0.5 L Pou Powder	uches	177.00
SN1707010	SD-Leu Powder	10 x 0.5 L Pouches	111.70	SN1732500		500 g	338.10
SN1707400	SD-Leu Powder	10 x 1 L Pouches	219.50	SN1733300	SD-His-Trp-Ura Powder 10 x 0.5 L Pou	· ·	111.70
SN1707500	SD-Leu Powder	500 g	332.10	SN1733500	•	500 g	332.10
SN1708010	SDA-Leu Powder	10 g	24.40	SN1734300	SDA-His-Trp-Ura Powder 10 x 0.5 L Pou		177.00
SN1708300	SDA-Leu Powder	10 x 0.5 L Pouches	177.00	SN1734500	SDA-His-Trp-Ura Powder	500 g	338.10
SN1708500	SDA-Leu Powder	500 g	338.10	SN1735300	SD-Ade-His-Leu-Trp 10 x 0.5 L Pou	uches	111.70
SN1709010	SD-Trp Powder	10 g	24.40		Powder		
SN1709300	SD-Trp Powder	10 x 0.5 L Pouches	111.70	SN1735500	•	500 g	332.10
SN1709500	SD-Trp Powder	500 g	332.10	SN1736300	SDA-Ade-His-Leu-Trp 10 x 0.5 L Pou	uches	177.00
SN1710010	SDA-Trp Powder	10 g 10 x 0.5 L Pouches	24.40 177.00	SN1736500	Powder SDA-Ade-His-Leu-Trp Powder	500 a	220 10
SN1710300 SN1710500	SDA-Trp Powder SDA-Trp Powder	500 g	338.10	SN1730300 SN1737100	•	500 g 100 g	338.10 84.40
SN1711300	SD-Ade Powder	10 x 0.5 L Pouches	111.70	SN1737500	•	500 g	392.40
SN1711500	SD-Ade Powder	500 g	332.10	SN1739100	•	100 g	84.40
SN1712010	SDA-Ade Powder	10 g	24.40	SN1739500	•	500 g	392.40
SN1712300	SDA-Ade Powder	10 x 0.5 L Pouches	177.00	SN1740100	SD-Met Powder	100 g	84.40
SN1712500	SDA-Ade Powder	500 g	338.10	SN1740300	SD-Met Powder 10 x 0.5 L Pou		120.80
SN1712700	SDA-Ade Agar Plates	10 plates	65.30	SN1740500		500 g	392.40
SN1713300	SD-His-Leu Powder	10 x 0.5 L Pouches	111.70	SN1743300	SD-Ile Powder 10 x 0.5 L Pou		111.70
SN1713500	SD-His-Leu Powder	500 g	332.10	SN1743500		500 g	332.10
SN1714300 SN1714500	SDA-His-Leu Powder SDA-His-Leu Powder	10 x 0.5 L Pouches 500 g	177.00 338.10	SN1745300 SN1745500	, ,	500 g	111.70 332.10
SN1715300	SD-His-Trp Powder	10 x 0.5 L Pouches	111.70	SN1770700		olates	65.30
SN1715500	SD-His-Trp Powder	500 g	332.10	SN1780100		100 g	84.40
SN1716300	SDA-His-Trp Powder	10 x 0.5 L Pouches	177.00	SN1780300	SD-Leu-Met-Trp-Ura 10 x 0.5 L Pou	•	120.80
SN1716500	SDA-His-Trp Powder	500 g	338.10		Powder		
SN1717300	SD-His-Ura Powder	10 x 0.5 L Pouches	111.70	SN1780500		500 g	392.40
SN1717500	SD-His-Ura Powder	500 g	332.10	SN1781100	SD-Leu-Met-Trp Powder	100 g	
SN1718300	SDA-His-Ura Powder	10 x 0.5 L Pouches	177.00	SN1781300	SD-Leu-Met-Trp Powder 10 x 0.5 L Pou	uches	120.80
SN1718500	SDA-His-Ura Powder	500 g	338.10	SN1781500	•	500 g	392.40
SN1719010	SD-Leu-Trp Powder	10 g	24.40	SN1782250	0	0	1,040.30
SN1719300 SN1719500	SD-Leu-Trp Powder SD-Leu-Trp Powder	10 x 0.5 L Pouches	111.70 332.10	SN1787100	SD-His-Leu-Met-Trp-Ura-Dextrose	100 g	146.70
SN1720010	SDA-Leu-Trp Powder	500 g 10 g	24.40	SN1788100		100 g	102.60
SN1720300	SDA-Leu-Trp Powder	10 x 0.5 L Pouches	177.00	SN1788500		500 g	398.50
SN1720500	SDA-Leu-Trp Powder	500 g	338.10	SN1790500	SD-His-Leu-Ura 2% Galactose Powder	· ·	545.80
SN1721300	SD-Leu-Ura Powder	10 x 0.5 L Pouches	111.70	SN1791500		500 g	689.60
SN1721500	SD-Leu-Ura Powder	500 g	332.10	SN1792100		100 g	194.70
SN1722300	SDA-Leu-Ura Powder	10 x 0.5 L Pouches	177.00		Powder		
SN1722500	SDA-Leu-Ura Powder	500 g	338.10	SN1792250		250 g	421.40
SN1723300	SD-Trp-Ura Powder	10 x 0.5 L Pouches	111.70	0.1.1	Powder		
SN1723500	SD-Trp-Ura Powder	500 g	332.10	SN1793100		100 g	194.70
SN1724300	SDA-Trp-Ura Powder	10 x 0.5 L Pouches	177.00		Raffinose Powder		
SN1724500	SDA-Trp-Ura Powder	500 g	338.10				

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SUNRISE DROPOUT BASES (YNB + NITROGEN + SUGAR)

SUNRISE DROPOUT BASES

Product		Pkg	
Number	Description	Size	Price
SN16501KG	DOB Powder	1 kg	\$449.20
SN1650250	DOB Powder	250 g	130.20
SN1650500	DOB Powder	500 g	247.80
SN16511KG	DOBA Powder	1 kg	654.80
SN1651250	DOBA Powder	250 g	197.30
SN1651500	DOBA Powder	500 g	359.80
SN16521KG	DOB 2% Galactose Powder	1 kg	870.80
SN1652250	DOB 2% Galactose Powder	250 g	251.20
SN1652500	DOB 2% Galactose Powder	500 g	478.20
SN16531KG	DOBA 2% Galactose Powder	1 kg	1,128.50
SN1653250	DOBA 2% Galactose Powder	250 g	326.00
SN1653500	DOBA 2% Galactose Powder	500 g	596.80
SN16541KG	DOB 2% Raffinose Powder	1 kg	1,648.60
SN1654250	DOB 2% Raffinose Powder	250 g	477.00
SN1654500	DOB 2% Raffinose Powder	500 g	870.80
SN16551KG	DOBA 2% Raffinose Powder	1 kg	1,606.80
SN1655250	DOBA 2% Raffinose Powder	250 g	463.70
SN1655500	DOBA 2% Raffinose Powder	500 g	847.50
SN16561KG	DOB 2% Galactose 1% Raffinose Powder	1 kg	1,370.00
SN1656250	DOB 2% Galactose 1% Raffinose Powder	250 g	375.50
SN1656500	DOB 2% Galactose 1% Raffinose Powder	500 g	689.60
SN1590100	MV Agar	100 g	28.70

SUNRISE YEAST NITROGEN BASES (YNB +/- NITROGEN)

SUNRISE YEAST NITROGEN BASES

Product Number	Description	Pkg* Size	Price
SN1500100	YNB Powder	100 g	\$66.70
SN1501100	YNB+Nitrogen Powder	100 g	71.40
SN1525100	YNB-Ca-Mg Powder	100 g	66.70
SN1526250	YNB-Cu-Fe Powder	250 g	273.10
SN1527250	YNB+Nitrogen-Cu-Fe Powder	250 g	180.80
SN1528100	YNB+Nitrogen-Calcium Powder	100 g	71.40
SN1529100	YNB-Calcium Powder	100 g	66.70
SN1531100	YNB+Nitrogen-Sulfate Powder	100 g	71.40
SN1532500	YNB-Potassium Phosphate Powder	500 g	265.70
SN1533050	YNB-Inositol Powder	50 g	53.30
SN1534050	YNB-Thiamine Powder	50g	53.30
SN1535250	YNB-Folic Acid-Riboflavin Powder	250 g	146.70
SN1536250	YNB+Nitrogen-Folic Acid-Riboflavin	250 g	155.50
	Powder	Ŭ	
SN1537250	YNB+Nitrogen-Thiamine Powder	250 g	155.50
SN1538250	YNB-Sulfate Powder	250 g	146.70
SN1539250	YNB+Nitrogen-Manganese Powder	250 g	155.50
SN1540250	YNB+Nitrogen-Phosphate and	250 g	155.50
	Divalent Cations	5	
SN1541250	YNB-Zinc Powder	250 g	146.70
SN19980201L	Burkhalter Media Liguid	1 L	56.00
SN1998020500	Burkhalter Media Powder, 500	500 g	194.70

SUNRISE RICH/UNDEFINED MEDIA

SUNRISE YPD, AHC, YEP, YE, ME

YPD (YEPD) Medium contains peptone (20g/L), yeast extract (10g/L) and dextrose (20g/L). YPAD contains the same plus 40mg/LAdenine.

AHC Media contains Yeast Nitrogen Base (1.7g/L), ammonium sulfate (5g/L) and dextrose (20g/L), adenine sulfate (0.02g/L) and casein hydrolysate (10g/L).

YEP Medium contains peptone (20g/L) and yeast extract (10g/L).

YE Medium contains dextrose (30g/L) and yeast extract (5g/L).

YM Medium contains yeast extract (3g/L), malt extract (3g/L), peptone (5g/L) and dextrose (10g/L).

 $\rm ME$ Medium contains malt extract (30g/L) and 50 mg/L each of adenine, histidine, leucine and uracil.

All agar formulations also contain 17g/L agar except YM, which contains 20g/L agar.

Product Number	Description	Pkg Size	Price
SN18801KG	YPAD Agar Powder	1 kg	\$201.10
SN1880400	YPAD Agar Powder	10 x 1 L Pouches	181.90
SN1880250	YPAD Agar Powder	250 g	57.30
SN1880500	YPAD Agar Powder	500 g	109.10
SN18791KG	YPAD Powder	1 kg	177.00
SN1879400	YPAD Powder	10 x 1 L Pouches	127.30
SN1879250	YPAD Powder	250 g	50.70
SN1879500	YPAD Powder	500 g	100.00
SN18761KG	YPD Agar	1 kg	183.40
SN1876400	YPD Agar	10 x 1 L Pouches	160.60
SN1876025	YPD Agar	25 g	24.40
SN1876250	YPD Agar	250 g	50.70
SN1876500	YPD Agar	500 g	100.00
SN1875019	YPD Medium, Sterile	500 mL	66.20
SN1875400	YPD Powder	10 x 1 L Pouches	115.60
SN1875100	YPD Powder	100 g	33.10
SN18751KG	YPD Powder	1 kg	160.60
SN1875025	YPD Powder	25 g	24.40
SN1875250	YPD Powder	250 g	50.30
SN1875500	YPD Powder	500 g	90.90
SN1691250	AHC Powder	250 g	179.60
SN1691500	AHC Powder	500 g	341.70
SN1692250	AHC Agar Powder AHC Agar Powder	250 g	189.70
SN1692500 SN18771KG	YEP Powder	500 g	361.00 246.60
SN1877250	YEP Powder	1 kg 250 g	240.00 83.10
SN1877400	YEP Powder	10 x 1 L Pouches	213.00
SN1877500	YEP Powder	500 g	145.40
SN20071KG	YE Powder	1 kg	225.10
SN2007250	YE Powder	250 g	67.50
SN20072500	YE Powder	500 g	122.10
SN20081KG	YE Agar Powder	1 kg	246.60
SN2008250	YE Agar Powder	250 g	77.90
SN2008500	YE Agar Powder	500 g	139.10
SN1870500	YM Powder	500 g	153.00
SN1871500	YM Agar Powder	500 g	168.20
SN2013500	ME Powder	500 g	245.10
SN2014500	ME Agar Powder	500 g	241.50

* Larger package sizes are available. Please inquire.

Please contact our Technical Support Department at 1-888-593-5969 or tech@biolynx.ca if you require any assistance with your product selection.



SUNRISE SPORULATION MEDIA

Product Number	Description	Pkg Size	Price
SN1821250 SN1821500 SN1822250 SN1822500 SN1882100	Presporulation Medium Broth Presporulation Medium Broth Sporulation Medium Agar Sporulation Medium Agar YKAC Agar	500 g 250 g	188.40 349.00 178.30 324.80 46.00

SUNRISE SUPPLEMENTS, ADDITIVES AND RAW MATERIALS

SUNRISE AMINO ACIDS

Product Number	Description	Pkg Size	Price
SN1997005	DL-homoserine, Yeast Culture Grade	5 g	\$294.60
SN1970010	L-alaninie, Yeast Culture Grade	10 g	24.40
SN1971010	L-arginine, Yeast Culture Grade	10 g	24.40
SN1972010	L-asparagine, Yeast Culture Grade	10 g	24.40
SN1973010	L-aspartic acid, Yeast Culture Grade	10 g	24.40
SN1974010	L-cysteine, Yeast Culture Grade	10 g	24.40
SN1976010	L-glutamic acid, Yeast Culture Grade	10 g	24.40
SN1975010	L-glutamine, Yeast Culture Grade	10 g	24.40
SN1977010	L-glycine, Yeast Culture Grade	10 g	24.40
SN1978010	L-histidine, Yeast Culture Grade	10 g	24.40
SN1979010	L-isoleucine, Yeast Culture Grade	10 g	24.40
SN1980010	L-leucine, Yeast Culture Grade	10 g	35.90
SN1981010	L-lysine, Yeast Culture Grade	10 g	24.40
SN1982010	L-methionine, Yeast Culture Grade	10 g	24.40
SN1983010	L-phenylalanine, Yeast Culture Grade	10 g	24.40
SN1984010	L-proline, Yeast Culture Grade	10 g	24.40
SN1985010	L-serine, Yeast Culture Grade	10 g	35.90
SN1986010	L-threonine, Yeast Culture Grade	10 g	24.40
SN1987010	L-tryptophan, Yeast Culture Grade	10 g	35.90
SN1988010	L-tyrosine, Yeast Culture Grade	10 g	24.40
SN1989010	L-valine, Yeast Culture Grade	10 g	24.40

SUNRISE SUGARS

Product Number	Description	Pkg Size	Price
SN1901500	Galactose, 20% (sterile)	500 mL	\$134.00
SN1908250	Galactose Powder	250 g	153.00
SN1908500	Galactose Powder	500 g	293.40
SN19081KG	Galactose Powder	1 kg	578.40
SN1900500	Glucose, 20% (sterile)	500 mL	37.40
SN1907250	Glucose Powder	250 g	23.00
SN1907500	Glucose Powder	500 g	38.80
SN1902500	Raffinose, 20% (sterile)	500 mL	332.10
SN1909025	Raffinose Powder	25 g	52.00
SN1909250	Raffinose Powder	250 g	392.40
SN1909500	Raffinose Powder	500 g	734.90
SN1916500	Sorbitol Powder	500 g	41.70
SN19161KG	Sorbitol Powder	1 kg	74.00

SUNRISE BUFFERS

Product Number	Description	Pkg Size	Price
SN5800500	10X PBS (Sodium Salts, Sterile), pH 7.3-7.5	500 mL	\$30.20

SUNRISE RAW MATERIALS

Product Number	Description	Pkg Size	Price
SN1996010 SN1905010 SN1910030 SN1910500 SN19101Kg SN1911250 SN1911250 SN1911500 SN19111Kg SN1914500 SN19141KG	4-aminobenzoic acid (PABA) Adenine Hemisulfate Agar, Yeast Culture Grade Agar, Yeast Culture Grade Agar, Yeast Culture Grade Ammonium Sulfate Powder Ammonium Sulfate Powder Ammonium Sulfate Powder Ammonium Sulfate Powder Tryptone Powder	10 g 10 g 30 g 500 g 1 kg 100 g 250 g 500 g 1 kg 500 g 1 kg	\$23.00 71.40 31.60 113.00 221.30 109.10 251.60 481.80 877.70 79.20 146.70
SN1906010	Uracil	10 g	24.40
SN1912500	Yeast Extract, Granulated	500 g	128.60
SN19121KG	Yeast Extract, Granulated	1 kg	250.40

SUNRISE SUPPLEMENTS

Product Number	Description	Pkg Size	Price
SN1920010	3-AT (3 amino-1,2,4-triazole)	10 g	\$38.80
SN1920050	3-AT (3 amino-1,2,4-triazole)	50 g	93.50
SN1920010	3-AT (3 amino-1,2,4-triazole)	10 g	38.80
SN1921001	5-FOA (5-Fluoroorotic acid)	1 g	165.60
SN1995010	Inositol, Yeast Culture Grade	10 g	35.90
SN1994010	Thiamine HCI	10 g	35.90

SUNRISE EZ-Plate[™] BEADS

- · Consistent distribution of colonies
- Eliminate hazards of flame, ethanol
- and glass rods



Plate cells in just seconds

Sterile EZ-Plate[™] Beads allow the plating of 25-400 uL of bacterial or yeast cells across the surface of an agar plate, providing a safer, faster alternative to a glass rod sterilized with ethanol and flame. Dispense several glass beads per plate from the convenient, skirted 50 ml conical tube. Pack of 2 contains enough beads for 160 standard 100 mm plates.

Product Number	Description	Pkg Size	Price
SN3001000	EZ-Plate [™] Beads	2 Pack	\$23.00

SUNRISE EZ-Grid[™] COLONY TEMPLATES

Reusable EZ-Grid[™] Colony Templates adhere to the outside of a standard 100 mm Petri dish. Notched for orientation, grids are available in both 24-square and 48-square grids.



Product Number	Description	Pkg Size	Price
SN300224	EZ-Grid™ Colony Templates, 24-square grids	10 Pack	\$21.60
SN300248	EZ-Grid [™] Colony Templates, 48-square grids	10 Pack	21.60

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ACCELERATE YOUR RESEARCH GROWTH FNC Coating Mix®

FNC Coating Mix* is a specially formulated serum-free tissue culture reagent used to enhance the attachment of adherent cells to plastic flasks or microplates. The unique formula creates an extracellular matrix that dramatically increases the rate of cell attachment to any plastic substratum.

FNC Coating Mix^e is extensively used with cell biology and cancer research in corneal, prostate, breast, bronchial, pulmonary, and conjunctival cell lines.



The above photographs show the difference in monolayer development of BRFF-55T prostate cancer cells with and without FNC Coating Mix[®]. Dense cell growth is apparent in the flask on the left, which was precoated with FNC Coating Mix[®].

Product Number	Description	Pkg Size	Price
AES0407	FNC Coating Mix	50 mL	\$97.40



Simple Solutions for Complex Proteins



For further information, please contact the ^{MLS} BioLynx Technical Support Team at: 1-888-593-5969 • www.biolynx.ca • tech@biolynx.ca

MJS BioLynx Inc.

ANIMAL PRODUCT-FREE MEDIA

ATHENA MEDIA OPTIMIZATION KITS (MOK™)

Available as Animal-Product-Free / Liquid or Powder Form

- Maximize Soluble Protein
- Dramatic Expression Results
- Available in Animal-Product-Free (APF)
- Available in liquid or powder form
- · Many products to choose from please feel free to ask Mike in Technical Support for assistance



The Media Optimization Kit[™], Animal-Product-Free Media Optimization Kit, and new Prime-olate[™] APF Media Optimization Kit[™] enable researchers to determine the best media formulation that yields the highest amount of target protein. Since the production of a given recombinant protein can vary significantly depending on the type of medium employed, the MOK[™]'s provide four proprietary expression broths, as well as Glucose M9Y, and LB Broth (Miller). The APF kit contains APF Certified[™] versions of Athena's proprietary expression media, and the Prime-olate[™] Kit contains the new Prime-olate[™] expression series, formulated with Athena's casein hydrolysate replacement Atholate[™]. Each dry powder kit contains enough mix to prepare 1 litre of each of the six media. The ready-to-use liquid kits contain 100mL of each medium.

Product Number	Description	Pkg Size	Price
AES0100	Media Optimization Kit [™] (MOK [™]) Includes: LB Broth (Miller) Turbo Broth [™] Superior Broth [™] Power Broth [™] Hyper Broth [™] Glucose M9Y Glucose Nutrient Mix	Kit	\$126.50
AES0100APF	APF Media Optimization Kit™ Includes: LB Broth (Miller) Turbo Prime Broth™ Superior Prime Broth™ Power Prime Broth™ Hyper Broth™ Glucose M9Y Glucose Nutrient Mix	Kit	126.50
AES0128	Media Optimization Kit [™] Liquid Includes: LB Broth (Miller) Turbo Broth [™] Superior Broth [™] Power Broth [™] Hyper Broth [™] Glucose M9Y	Kit	164.50
AES0129	APF Media Optimization Kit™ Liquid Includes: LB Broth (Miller) Turbo Prime Broth™ Superior Prime Broth™ Power Prime Broth™ Hyper Broth™ Glucose M9Y	Kit	164.50
AES0169	MOK Prime-olate [™] Includes: LB Broth (Miller) Turbo Prime-olate [™] Superior Prime-olate [™] Power Prime-olate [™] Hyper Broth [™] Glucose M9Y Glucose Nutrient Mix	Kit	151.80
AES0179	MOK Prime-olate [™] Liquid Includes: LB Broth (Miller) Liquid Turbo Prime-olate [™] Liquid Superior Prime-olate [™] Liquid Power Prime-olate [™] Liquid Hyper Broth [™] Liquid Glucose M9Y Liquid	Kit	189.80

* Kit components are also available for individual purchase

GENTEL BIOSCIENCES PROTEOMICS MULTI-SYSTEM

Visible wavelength array scanner that is cost effective, fast, and robust

Want more data in less time without the hassle of complicated instrumentation? Your experiments demand equipment that just works...tools that are both versatile and affordable. Look no further than the Gentel Proteomics Multi-System[™] and AthenaQuant[®] software.

The Gentel Proteomics Multi-System[™] is a flexibility and easy to use high resolution scanner along with a laptop computer preconfigured with image-capture and analysis software capable of data extraction and quantitation. From antibody, antigen and lysate arrays to multiplex ELISAs and Western blots, the Proteomics Multi-System has you covered with an all-inclusive system...from scan through analysis.

Applications

- High density antibody arrays (qualitative & quantitative) for cancer, allergy, and autoimmune research
- Enables glycan detection, sandwich assays, probing tumor/cell lysates, and biomarker discovery

The Multi-System Gives You More!

More Experiments: 10-fold reduction in cost over fluorescence systems More Sensitivity: 3-20 fold increase in sensitivity over fluorescence systems More Comfort: Familiar and easy-to-use 96-well or slide format More Time: Scan a 96-well plate or 4 slides in only 4 minutes Learn More...please contact Mike in our Technical Support Department

Proteomics Multi-System





Each

\$12,400.00

Description Size Price

Number GT101030

Product

GENTEL BIOSCIENCES APIX[™] PROTEIN LABELLING AND DETECTION SYSTEM

The APiX[™] Protein Labeling and Detection Kit provides an ultra-sensitive detection option for use with a wide variety of sample types, including serum, cell lysates, tissue lysate, and others. The Kit provides a simple and highly sensitive protein labeling system that takes advantage of ULS[™] labeling chemistry. The ULS-based labeling procedure requires no special training or techniques and is compatible with Gentel's APiX[™] chromogenic detection method.

The entire procedure requires no special training, instrumentation, or techniques and is compatible with Gentel's APiX[™] chromogenic detection method. This detection methodology allows for the detection of any biotinylated molecule, generating light grey-to-black spots that are visible to the naked eye and can be scanned with the Gentel Proteomics Multi-System[™]. APiX uses a patented, gold-catalyzed silver deposition and typically achieves measurably improved sensitivity compared to fluorescence detection.

Applications

· Label-based (single capture) array detection

Benefits

- Superior biotin labeling uniformity per protein and a lower risk of epitope destruction as compared to Isothiocynate (ITC) or N-hydroxysuccinimide (NHS) labeling methods
- · Achieve up to a 5-10X greater assay sensitivity than fluorescence-based detection without sacrificing precision or array density
- · Array densities as high as several thousand spots per standard microarray slide or several hundred in a sample well are possible
- · Detect and measure low-concentration proteins (pg/mL)
- · Store processed slides for later scanning and archive for up to a year
- Kits suitable for labeling either APiX[™] slides (clear surface) or porous nitrocellulose slides (white surface)
- 8 labeling reactions per kit
- · Detection reagents are stable in the presence of ozone and cannot photo-bleach
- No "blooming"

Features

- Ultra-sensitive detection using patented gold nanoparticle-catalyzed silver deposition technology
- Label 100-120 μg of serum proteins with each 5 μL reaction of Protein Labeling Reagent
- Suitable for use with a variety of array types including antibody, peptide, protein and lysate arrays
- Compatible with a wide variety of microarray slides, including APiX[™] Protein Microarray Slide, commercially available porous nitrocellulose array slides, and virtually any other commercially available clear glass slide
- · Compatible with the Gentel Proteomics Multi-System and SIMplex multiplexing systems
- · Compatible with a growing list of single-capture antibody arrays
- The APiX[™] Protein Labeling and Detection Kit includes all the required reagents for detection of biotinylated detector molecules on clear or porous white nitrocellulose microarray slides. APiX[™] chromogenic detection uses a patented gold nanoparticle-catalyzed silver deposition technology that is suitable for use with a variety of array types including antibody, peptide, protein, and lysate arrays.

Product Number	Description	Pkg Size	Price
GT51027	APiX [™] Protein Labeling and Detection Kit	8 reactions	\$895.30



PROTEIN MICROARRAYS

GENTEL BIOSCIENCES SIMplex[™] MULTIPLEXING SYSTEMS

SIMplex[™] 16 - Process 16 microarrays using one APiX[™] slide

The SIM*p*/*ex*^{*i*^w} 16 multiplexing system allows the processing of sixteen individual microarrays on a single APiX^{*i*^w} protein microarray slide. SIM*p*/*ex*^{*i*^w} 16 eliminates broken slides, unreliable fasteners, and leaky gaskets. The slide is held in place by a soft silicone gasket that maintains the integrity of your assays on a APiX[®] ultra-thin nitrocellulose film. The SIM*p*/*ex*^{*i*^w} 16 wells dimensions conform to nine mm center-to-center spacing and are compatible with 8-channel multi-pipettors.

Features of SIM*plex*[™] 16:

- Leak-proof microarray separation
- · Increased throughput to process 16 samples simultaneously
- Maintains integrity of APiX® ultra-thin nitrocellulose film
- Compatible with multi-channel pipettors

SIM*plex*[™] 16 System includes:

- 1 Reuseable bottom and top slide holder (a and b respectively)
- Limited use 16 multi-well gasket (c)
- 5 Disposable SIM*plex[™]* 16 Well Seal (not shown)



SIMplex[™] 64 Multi-Array System - Process 64 microarrays in parallel using four APiX[™] slides

Multiplex immunoassays on SIM p/ex^{U} 64 hold up to four ultra-thin film nitrocellulose slides in a 9 mm spaced microplate. SIM p/ex^{U} 64 is intuitively designed for liquid microplate handling and compatible with 1x3 inch slide imaging instruments. SIM p/ex^{U} 64 chambers separate four APiXTM slides with the upper structure compressed against soft silicone gasket for tight, leak-free seal. Optional configurations are available such as SIM plexTM 16 and SIM p/ex^{U} HTS.

Features of SIMplex[™] 64:

- Leak-proof microarray separation
- · Increased parallel processing of 64 samples simultaneously
- · Maintains integrity of ultra-thin nitrocellulose film
- Compatible with multi-channel pipettors

SIMplex[™] 64 System includes:

- Reuseable bottom and top slide holder
- 4 Reusable 16 multi-well gaskets
- 25 Disposable SIMplex[™] 64 Well Seal (not shown)





Product Pkg Number Description Size Price GT41001 SIM*plex*[™] 16 Multi-Array System, 2 x 8 well \$334.90 1 SIM*plex*[™] Gasket, 2 x 8 well GT41004 4 260.70 GT41005 SIM*plex*[™] Gasket, 2 x 8 well 10 481 50 GT41010 SIM*plex[™]* Well seal, 2 x 8 well and 3 x 8 well compatible 26.20 5 GT41025 SIM*plex*[™] 64 Multi-Array System, 4 x (2 x 8 well) 620.80 1 GT41011 SIM*plex[™]* Well seal, 4 x 16 well and 4 x 24 well compatible 5 53.80

GENTEL BIOSCIENCES SLIDES AND REAGENTS

The most dependable protein microarray products for multiplex immunoassays

Gentel offers proven, dependable technology for creating and processing your own protein microarrays.

Gentel Biosciences APIX[™] Protein Microarray Slides — The Clear Choice for Protein Microarray Slides

The APiX[™] Protein Microarray Slide is a glass microscope slide that has been coated with Gentel's proprietary optically clear nitrocellulose. This ultrathin film of nitrocellulose is an excellent substrate for binding antibodies and proteins. The APiX[™] Protein Microarray Slide is ready to use right out of the box, there is no "activation" or pre-treatment of the surface required before printing onto the nitrocellulose.

Specifications

Slide Dimensions

Nitrocellulose thickness

Usable surface area

Materials Required, But Not Included

Protein Microarray Print Buffer

Protein Microarray Block Buffer Protein Microarray Wash Buffer

Protein Microarray Rinse Buffer Microarray Spotter

Component

Sample Separator

Microarray Scanner

APiX™

75 x 25 x 1 mm

(bar-coded)

67 x 21 mm

< 500 nm

Description /Recommended Source

Gentel® Array Buffer (5X) (GT21012)

Gentel® Block Buffer (5X) (GT21014) Gentel® Wash Buffer (10X) (GT21016) Gentel® Rinse Buffer (10X) (GT21016) Compatible with standard microarray spotters

SIMplex[™] 16 Multi-Array System (GT41001), SIMplex[™] 24 Multiplexing System (GT41050), or

SIMplex[™] 64 Multiplexing System (GT41025)

Gentel Proteomics Multi-System™ (GT101030)

Benefits

- · Antibodies and proteins are exceptionally stabile when immobilized on nitrocellulose
- Extremely low background for chromogenic detection in serum
- Detect and measure low-concentration proteins using APiX[™] Chromogenic reagents
- Slides can be tracked by scanning the barcode, visible in the array scan
- No activation or pre-treatment of the surface required before printing
- Uniform protein binding across entire surface

APiX[™] Slide Overview

APiX[™] slides are optically clear nitrocellulose-coated slides that are designed to be used in multiplexed colorimetric immunoassays; specifically, with the APiX[™] View[™] Detection Kits available from Gentel. Nitrocellulose makes an excellent substrate for binding a wide variety of capture agents, including antibodies, proteins and other biomolecules.

The Gentel APiX[™] System includes not only slides, but also reagents and analyzers designed for protein microarray applications. APiX[™] View[™] reagents detect biotin-labeled molecules such as proteins that bind to protein microarrays (shown for a sandwich immunoassay in Figure 1) via a gold nanoparticle-catalyzed silver deposition. This detection scheme is designed to be flexible and can be used with a variety of different assay types; including, but not limited to, sandwich immunoassays, single capture assays, cell lysate screening, antigen arrays and serological screening.

The Gentel Proteomics Multi-System[™] is capable of imaging 3 x 1" slides or 96 well plates after the APiX[™] View[™] (or other colorimetric detection) assay has been completed.

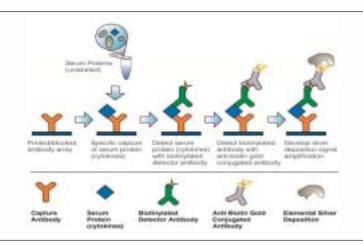


Figure 1. Schematic showing silver precipitation reaction used in the APiX[™] View[™] Detection Kit for a sandwich immunoassay for cytokines.

Gentel Biosciences APiX[™] Protein Microarray Evaluation Kit

The APiX[™] Protein Microarray Evaluation Kit includes not only slides, but also chromogenic detection reagents and analyzers designed for protein microarray applications. APiX[™] slides are optically clear ultrathin nitrocellulose-coated glass substrates that are optimized for use with the APiX[™] View[™] Detection Kit.

APiX[™] View[™] reagents are designed to detect biotin-labeled molecules such as proteins that bind to protein microarrays. This detection scheme is designed to be flexible and can be used with a variety of different assay types; including, but not limited to, sandwich immunoassays, single capture assays, cell lysate screening, antigen arrays and serological screening. The Gentel Proteomics Multi-System[™] is capable of imaging 3 x 1" slides or 96 well plates after the APiX[™] staining assay has been completed.

Product Number	Description	Pkg Size	Price
GT102008	APiX [™] Protein Microarray Slide Printable Surface Area 1,407 mm ² , (67 x 21 mm)	2 slides*	\$109.00
GT102031	APiX [™] Protein Microarray Evaluation Kit with printing and detection reagents	4 slides*	550.40

* Other package sizes available - please inquire.

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1-888-593-5969

PROTEIN MICROARRAYS

Gentel Biosciences combines proprietary surface chemistry, custom analysis software and specialized instrumentation into a single platform specifically engineered for automated multiplex protein analysis. They use this platform, coupled with their expertise in developing highly validated assays, to deliver a continually expanding portfolio of the most reliable tools, protein microarray kits and services in the industry.



PROTEIN ARRAY KITS

Below are the Gentel Protein Array Kits currently available. Please contact Mike in Technical Support for further details.

APiX[™] Profiling Antibody Arrays

Simultaneously profile the relative concentration of up to 97 cytokines and related proteins with exceptional sensitivity and reproducibility.

APiX[™] Quantitative Antibody Arrays

Quantify up to 40 cytokines and related proteins in less than four hours with exceptional sensitivity and reproducibility.

APiX[™] Human Tumor Profiling Kits

The APiX[™] Human Tumor Profiling kits combine Protein Biotechnologies' SomaPlex[™] tissue lysate arrays and Gentel's APiX[™] View[™] Detection Reagents delivering a rapid, cost-effective and high throughput analysis tool for comparing protein expression level differences in matched patient sample sets for over thirteen cancer sub-types.

APiX[™] Disease Profiling Kit

The APiX[™] Disease Profiling Kit combines Clontech's Antibody Array 380 and Gentel's APiX[™] View[™] Detection Reagents delivering a rapid cost-effective high-throughput analysis tool for comparing protein expression levels.

APiX[™] Simian Pathogen Array, Version 1

The APiX[™] Simian Pathogen Array is a valuable tool for the continual profiling of your specific pathogen-free (SPF) colony. Routine surveillance of your colony with the APiX[™] Simian Pathogen Array will give you confidence in your colony health, and reduce the number of samples needing to be tested by more expensive and time-consuming methods.

APiX[™] Human Cytokine Kit

The APiX[™] Human Cytokine Kit, a 17-plex sandwich microarray, is a quantitative assay that measures cytokine proteins in human serum. Each antibody on the array has been shown to capture its target antigen in a linear fashion and was tested for cross-reactivity with other antigens in the panel.

APiX[™] Murine Cytokine Kit

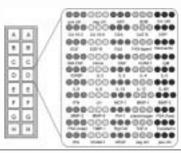
The APiX[™] Murine Cytokine Kit, a 12-plex sandwich microarray, is a quantitative assay that measures cytokine proteins in mouse serum. Each antibody on the array has been shown to capture its target antigen in a linear fashion and was tested for cross-reactivity with other antigens in the panel.

APiX[™] and PANDEIAArray[™] Kits include an expanding portfolio of content-based arrays for multiplex serum and plasma profiling, biomarker discovery and pre-clinical analysis. Gentel's Array Kits are distinguished by their level of validation and performance, thereby ensuring that you obtain reliable results.

Gentel APiX[™] Cancer Biomarker Kit

The APiX[™] Cancer Biomarker Kit measures the relative abundance of 45 human cancer-related proteins in 8 serum samples simultaneously. This single-capture antibody array and protein labeling system is validated to show the detectable and specific capture of target proteins in serum to ensure that you obtain reliable results.

- Reliable profiling data of 45 cancer proteins per serum sample
- A complete kit with a pre-printed array and labeling reagents
- · Cost-effective per sample processing
- · Compatibility with standard microarray scanners



APiX[™] Cancer Biomarker Array Schematic

Product Number	Description	Pkg Size	Price
GT81027	APiX [™] Cancer Biomarker Kit Includes: Array and labeling reagents 8 samples	Kit	\$1,102.20

Gentel PANDEIA Array[™] Cancer Biomarker Kit

The PANDEIA Array[™] Cancer Biomarker Kit measures the relative abundance of 46 human cancer-related proteins in 8 serum samples simultaneously. This single-capture antibody array and protein labeling system is validated to show the detectable and specific capture of target proteins in serum to ensure that you obtain reliable results.

- · Reliable profiling data of 46 cancer proteins per serum sample
- A complete kit with a pre-printed array and labeling reagents
- Cost-effective per sample processing
- · Compatibility with standard microarray scanners

Product Number	Description	Pkg Size	Price
GT81001	PANDEIA Array [™] Cancer Biomarker Kit Includes: Array and labeling reagents 8 samples	Kit	\$1,102.20

PROTEOMICS

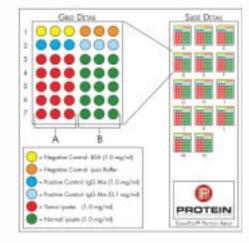
PROTEIN BIOTECHNOLOGIES SomaPlex[™] PROTEIN MICROARRAYS

To facilitate high-throughput screening of human clinical specimens, Protein Biotechnologies provides its tissue lysate library on ready-to-use protein microarrays. These microarrays promise to dramatically increase the efficiency and speed of research studies by permitting the end user to assay 100+ clinical samples in a single assay.

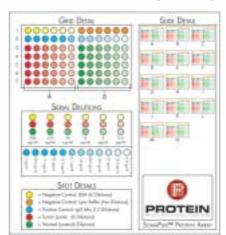
- · Standard microarray slide format with single well
- Small incubation volume (600 μL)
- · Available in qualitative and quantitative analysis formats
- Rapid assay time (~4-5 hours using primary and labeled secondary antibodies)
- Optimized microarray buffers and secondary antibodies reduce or eliminate background staining
- · Compatible with colourimetric, chemiluminescent and fluorescent detection systems



SomaPlex[™] Reverse Phase Protein Microarray — Qualitative Human Stomach Tumor & Normal Tissue (PBPMA8001L)



SomaPlex[™] Reverse Phase Protein Microarray — Quantitative Human Stomach Tumor & Normal Tissue (PBPMA8001N)



Product Number	Description	Pkg Size	Price
PBPMA2001L	Human Breast Tumor & Normal Tissue — Qualitative Microarray	Each	\$363.40
PBPMA2001N	Human Breast Tumor & Normal Tissue — Quantitative Microarray	Each	535.90
PBPMA7001L	Human Colon Tumor & Normal Tissue — Qualitative Microarray	Each	363.40
PBPMA7001N	Human Colon Tumor & Normal Tissue — Quantitative Microarray	Each	535.90
PBPMA4001L	Human Female Reproductive Tract Tumor & Normal Tissue — Qualitative Microarray	Each	363.40
PBPMA4001N	Human Female Reproductive Tract Tumor & Normal Tissue — Quantitative Microarray	Each	535.90
PBPMA13001L	Human Larynx & Skin Tumor & Normal Tissue — Qualitative Microarray	Each	301.80
PBPMA13001N	Human Larynx & Skin Tumor & Normal Tissue — Quantitative Microarray	Each	474.30
PBPMA9001L	Human Liver Tumor & Normal Tissue — Qualitative Microarray	Each	363.40
PBPMA9001N	Human Liver Tumor & Normal Tissue — Quantitative	Each	535.90
PBPMA1001L	Human Lung Tumor & Normal Tissue — Qualitative Microarray	Each	363.40
PBPMA1001N	Human Lung Tumor & Normal Tissue — Quantitative Microarray	Each	535.90
PBPMA3001L	Human Prostate, Bladder, Kidney Tumor & Normal Tissue — Qualitative Microarray	Each	363.40
PBPMA3001N	Human Prostate, Bladder, Kidney Tumor & Normal Tissue — Quantitative Microarray	Each	535.90
PBPMA8001L	Human Stomach Tumor & Normal Tissue — Qualitative Microarray	Each	363.40
PBPMA8001N	Human Stomach Tumor & Normal Tissue — Quantitative Microarray	Each	535.90
PBPMA16001L	Human Thyroid Tumor & Normal Tissue — Qualitative Microarray	Each	363.40
PBPMA16001N	Human Thyroid Tumor & Normal Tissue — Quantitative Microarray	Each	535.90

PROTEIN BIOTECHNOLOGIES TISSUE MICROARRAYS

For protein localization, immunohistochemical and in-situ hybridization studies, tissue microarrays are an ideal method for studying multiple human cancer / normal tissues in a single assay. They increase throughput, conserve precious tissue resources, improve internal experimental controls, and reduce reagent consumption.

Protein Biotechnologies has assembled the largest and most comprehensive collection of ready-to-use human protein extracts on the market. Human tissue samples are flash frozen to -120°C within 5-10 minutes of removal ensuring that specimens are of the highest quality available.

Matched Human Tumor / Normal Tissue Lysates

Currently available specimens include: Bladder, breast, colon, female reproductive tract, kidney, larynx, leukemia and bone marrow, liver, lung, lymphoma, prostate, skin, stomach, testis and thyroid.

Normal Human, Mouse, Rat Tissue Lysates and Cell Line Lysates are also available!

These tissue lysates are ideal for biomarker identification / screening, antibody detection / characterization, protein-protein interaction, protein expression, ligand binding, ELISA, immunoprecipitation, 1D and 2D gel electrophoresis, and Western blotting.

All human materials are obtained under strict bioethical standards using IRB-approved protocols that ensure patient confidentiality, safety and informed consent.

These same lysates are available in microarray dipstick format (Dip-N-Spots[™]) and as pre-run Western Blot Dipsticks (Dip-N-Blots[™]).

oduct umber	Description	Cores	Pkg Size	Price	Product Number	Description	Cores	Pkg Size	
ladder					Liver				
PBTMA2205	Bladder cancer tissue array, with paired normal tissue	24	Each	\$160.20	PBTMA1426	Liver cancer tissue array with paired normal tissue	48	Each	0,
PBTMA2207	Bladder cancer	66	Each	192.50	PBTMA1429	Liver cancer tissue array	150	Each	
	tissue array/various grades and stages				Lung				
Brain					PBTMA1101	Lung cancer tissue array	48	Each	
PBTMA1901	Nervous system tumour	96	Each	192.50		with paired normal tissue	450	E a a b	
	tissue array					Lung cancer tissue array	150	Each	
PBTMA1902	Nervous system glioma	48	Each	192.50	Lymphoma		10		
_	tissue array					Lymphoma tissue array	18	Each	
Breast	-				Ovary				
PBTMA1001	Breast cancer tissue array, 18 cases from normal to malign	18 ant	Each	86.20	PBTMA2210	Ovarian cancer tissue array, with paired normal tissue	24	Each	
PBTMA1002	Breast cancer tissue array with paired normal tissue	48	Each	160.20	PBTMA2213	Ovarian cancer tissue array of 150 samples	150	Each	
PBTMA1003	Breast cancer tissue array	49	Each	110.90	Pancreas				
PBTMA1004	Breast cancer tissue array	71	Each	110.90	PBTMA1421	Pancreatic cancer tissue array	48	Each	
Cervix/Uteru	S				Prostate				
PBTMA2221	Cervical cancer tissue array	150	Each	192.50	PBTMA2208	Prostate cancer tissue array	48	Each	
PBTMA2218	Cervical cancer	24	Each	160.20	Rectum				
	with paired normal tissue				PBTMA1422	Rectum cancer tissue array	150	Each	
PBTMA2214	Endometrial cancer tissue array with paired normal tissue	/ 24	Each	160.20	Skin				
Colon	mar parloa hormar toodo				PBTMA2001	Skin tumour tissue array,	96	Each	
	Colon cancer tissue array	150	Each	192.50		with progressive changes			
	Colon cancer tissue array.	48	Each	135.50	Stomach				
	with paired normal tissue	40	Each	135.50	PBTMA1406	Stomach cancer tissue array with paired normal tissues	48	Each	
Esophagus					PBTMA1409	Stomach cancer tissue array	150	Each	
PBTMA1401	Esophagus cancer tissue array with paired normal	24 tissue	Each	135.50	Testis				
PBTMA1405	Esophagus cancer, tissue array	75	Each	192.50	PBTMA2209	Testis tumour tissue array	48	Each	
Kidney									
PBTMA2201	Kidney cancer tissue array, with paired normal tissue	24	Each	135.50	-	partial listing. Please co al Support Department			
DBTMA2204	Kidney cancer tissue array	150	Each	192.50					

PROTEIN ASSAYS

G-BIOSCIENCES PROTEIN ASSAY SELECTION GUIDE



G-Biosciences offers protein assays and accessories for a wide variety of applications. They offer colourimetric protein assays, single tube assays, as well as test strip based assays for rapid analysis. These assays are suitable for even the most demanding research applications.

Product Number	Description*	Features	Sample Volume	Linear Response Range	Assay Time (~minutes)	Pkg Size	Page
GB786005	NI™ (Non-Interfering)	Overcomes interference of agents commonly present in protein solutions - Colourimetric	1-50 μL	0.5-50 μg	30	500 Assays	100
GB78620	dotMETRIC [™]	 μL protein assay for rapid estimation of small sample volumes using test strips No protein-to-protein variation Resistant to detergents, reducing agents and other laboratory agents 	1 μL	25 ng - 1μg	10	> 300 Assays	101
GB78621	dotMETRIC [™] with Spot Application Device	1 μL protein assay for rapid estimation of small sample volumes using test strips - Same as dotMETRIC [™] GB78621 with the addition of the dotMETRIC [™] Spot Application Device	1 μL	25 ng - 1μg	10	> 300 Assays	101
GB78612	CB™	Coomassie dye protein assay, based on the Bradford Assay - Suitable for tube or microplate assays - Ready to use assay reagents	5-100 μL	0.5-50 μg	30	500 Assays	101
GB78612X	CB-X [™]	Single tube assay - Rapid precipitation and colour development - No requirement for a calibration plot	5-100 μL	0.5-50 μg	10	500 Assays	101
GB786020	SPN™	Spin format protein assay for single sample - Unaffected by non-protein chemicals and agents - No toxic agents used - laboratory and environmentally safe	1-10 μL	0.5-10 μg	10	50 Assays	101
GB786021	SPN [™] -htp	Spin format protein assay for high throughput screening - Unaffected by non-protein chemicals and agents - No toxic agents used - laboratory and environmentally safe	1-10 μL	0.5-10 μg	10	5 x 96 assay plates	101

* All kits include necessary reagents and protein standard BSA (2mg/mL), 5 mL

G-BIOSCIENCES NI[™] NON-INTERFERING PROTEIN ASSAY

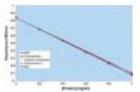
An assay that overcomes interference of common laboratory agents

- Uses a proprietary Universal Protein Precipitating Agent UPPA[™] for removing interfering agents from protein solutions
- Assay is independent of the protein side chains minimizing protein-to-protein variation
- Colour density is inversely proportional to the amount of protein

Applications

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- Suitable for protein samples containing common laboratory agents, such as reducing agents (ß-mercaptoethanol, dithiothreitol), chelating agents (EDTA), detergents, amines (Tris), sugars and many other agents
- Suitable for samples containing chaotropic agents such as urea, thiourea, guanidine hydrochloride, guanidine thiocyanate, ammonium sulfate, drugs, antibiotics, cobalt, and numerous other agents and extraction buffers
- Suitable for determination of protein concentration in cellular fractions, tissue & cell lysates and chromatography purification fractions Suitable for dilute protein solutions



NI[™] Protein Assay shows minimal protein-to-protein variation. BSA, thyroglobulin, carbonic anhydrase, Cytochrome C and bovine immunoglobulin G were assayed for protein-to-protein variation. The proteins produced identical color and slope in the range of $0.5\mu\text{g}\text{-}50\mu\text{g},$ giving an average ratio of 1.01.

Product Number	Description	Pkg Size	Price
GB786005	NI [™] Non-Interfering Protein Assay [™] Kit Sufficient for 500 Assays Includes: UPPA [™] -1, 250 mL UPPA [™] -1, 250 mL Colper Solution - Reagent I, 50 mL Color Agent A, 500 mL Color Agent B, 5 mL Protein Standard, BSA (2 mg/mL), 5	Kit	\$232.80

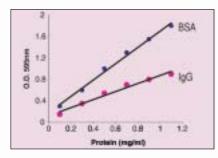


G-BIOSCIENCES CB[™] PROTEIN ASSAY

A Coomassie® Dye Based Protein Assay

An improved Coomassie[®] Dye based protein assay for the simple and rapid estimation of protein concentration. CB[™] Protein Assay is supplied with a simple to follow protocol. Ready to use reagent that does not require pre-filtering or dilution. Simply mix the protein solution with CB[™] Protein Dye and read the optical density. The protein-dye complexes reach a stable end point in 5 minutes.

- Sensitivity: Linear responses over the range of 0.5 μg 50μg protein
- · Flexible Protocols Suitable for tube or Titer plate assays
- · Ready-to-use assay reagents and no preparation required
- Fast colour development



Concentration of a selection of reagents suitable for CB[™] Protein Assay

		-
Acids, 1mM	Brij-35, 0.06%	Guanidine-CHI, 6M
Ammonium Sulfate, 1.0M	CHAPS, 0.5%	Glycerol, 10%
Ampholytes, 0.5%	CHAPSO, 0.5%	DMSO, 10%
Barbital	NP-40, 0.5%	Phenol, 5%
Boric Acid, 1mM	SDS, 0.015%	Methanol, 10%
Citrate, 0.05%	Triton-X100, 0.06	Ethanol, 10%
Deoxycholate, 0.1%	Tween-20, 0.03%	Ascorbic Acid, 50mM
DTT, 1M	HEPES, 0.1M	Glucose, 1M
Cysteine, 10mM	MES, 0.7M	Urea, 3M
2-Mercaptoethanol, 1M	Sodium Azide, 0.5%	Sucrose, 25%
DNA, 1mg/mL	Sodium Chloride, 6m	Sodium Hydroxide, 0.1M
EDTA, 0.1M	Sodium Phosphate, 0.1M	Glycine, 0.1M
EGTA, 0.05M	Tris, 2M	tRNA, 0.35mg

Product Number	Description	Pkg Size	Price
GB786012	CB [™] Protein Assay Kit Sufficient for 500 Assays Includes: CB [™] Protein Assay Reagent, 500 Bovine Albumin Standard (2 mg/		\$72.70

Subscribe to our monthly e-Lynx newsletter... visit www.biolynx.ca

G-BIOSCIENCES CB-X[™] PROTEIN ASSAY

A single tube protein assay with detergent compatibility

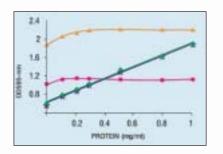
CB-X[™] Protein Assay is based on the principle of protein precipitation and coomassie dye stain. It is a rapid, single tube assay that is unaffected by the presence of high concentrations of reducing agents and other interfering agents, including detergents and chaotropes.

CB-XTM saves time and resources. Each lot of CB-XTM is provided with a lot-specific calibration plot that will allow researchers to omit the preparation of their own calibration curve. The CB-XTM table has been prepared using a complex protein mixture whose dose response compares well with proteins derived from animal, plant, bacteria and yeast.

- Sensitivity: Linear responses over the range of 0.5µg 50µg protein
- · Suitable for detergent solubilized membrane proteins
- · Ready to use assay reagents and no preparation required
- Fast color development
- Long shelf life, stable for 12 months

Concentration of a selection of reagents suitable for CB-X[™] Protein Assay

Brij-35, 2%	Tween-20, 2%	Ammonium Sulfate, 1.0M
CHAPS, 2%	HEPES, 1M	Deoxycholate, 0.1%
CHAPSO, 2%	MES. 1M	Guanidine-HCI. 6M
011/11/000, 270	ME0, 111	
NP-40, 2%	2-Mercaptoethanol, 1M	Urea, 3M
SDS, 2%	DTT, 1M	Glucose, 1M
,	,	,
Triton-X100, 2%	EDTA, 0.1M	Sucrose, 25%



Protein solutions containing 1% Triton X-100 (ellow plot) and 1% SDS (Red plot) were assayed using a standard Coomassie dye protein assay. The plot shows breakdown of the assay. Protein solution containing the detergents were again assayed with the CB-X[™] protein assay (Green plot). The CB-X[™] protein assay plot matches the control (e.g., protein solution without a detergent, Black plot).

Product Number	Description	Pkg Size	Price
GB78612X	CB-X [™] Protein Assay <i>Sufficient for 500 Assays</i> Includes: CB-X [™] , 2 x 125 mL CB-X [™] Assay Dye, 2 x 250 mL CB-X [™] Solubilization Buffer-I, 15 mL CB-X [™] Solubilization Buffer-II, 15 mL Bovine Serum Albumin Standard (2 mg CB-X [™] Table, Lot Specific, 1	Kit g/mL), 5 m	\$201.80 L

www.biolynx.ca

PROTEIN ASSAYS

G-BIOSCIENCES dotMETRIC[™] PROTEIN ASSAY

For rapid estimation of protein concentration

The dotMETRIC[™] Protein Assay uses a unique combination of proprietary reagents and test strips. No expensive equipment needed. The method involves mixing 1µL of protein sample with a specific Dilution Buffer supplied with each kit. Apply 1µL of the solution to the test strip by point-of-contact capillary action. Under a specific buffer condition as protein enters into the matrix of the test strip it binds and saturates as protein diffuses in circular manner. Develop the test strip in 2-8 minutes. A circular protein spot is produced. The diameter of the spot is proportional to the concentration. By measuring the diameter of the spots with the dotMETRIC[™] scale, supplied with each kit, you can easily determine concentration of protein.





Product Number	Description	Pkg Size	Price
GB78620	Protein dotMETRIC [™] Basic Kit Sufficient for 300 Assays Includes: Fixer-A, 60 mL Developer-B, 60 mL Dilution Buffer, 10 mL Test Strips, 50 dotMETRIC [™] Scale, 1 Spot Application Board, 1 Plastic Forceps, 1 1 μL Application Capillaries, 100	Kit	\$188.50
GB78621	Basic Kit, with dotMETRIC [™] Spot Application Device Sufficient for 300 Assays Includes: Fixer-A, 60 mL Developer-B, 60 mL Dilution Buffer, 10 mL Test Strips, 50 dotMETRIC [™] Scale, 1 Spot Application Board, 1 Plastic Forceps, 1 dotMETRIC [™] Application Device, 1	Kit	353.70
GB78664	Sample Application Pipet Tips	96 tips	21.60

Application Capillaries, Developing Trays and dotMETRIC[™] Spot Application Devices are also sold separately. Please contact our Technical Support Department for more information.

G-BIOSCIENCES RED 660[™] PROTEIN ASSAY

Single, ready-to-use reagent for rapid analysis of total protein concentration

RED 660[™] Protein Assay is a single reagent colorimetric assay that outperforms commercial colorimetric assays. RED 660[™] Protein Assay offers greater linearity, greater color stability, and greater compatibility with detergents, reducing agents and other interfering agents compared to the Coomassie assays.

Rapid: Single reagent colourimetric assays

Versatile: RED 660[™] Protein Assay is compatible with most detergents

Sensitive: Protein estimation can be performed rapidly using as little as 0.5µg protein

Product Number	Description	Pkg Size	Price
GB786676	Red 660 [™] Protein Assay	500 Standard Tube Assays / 2,500 Microwell /	\$147.80 Assays

G-BIOSCIENCES SPN[™] PROTEIN ASSAY

Measure protein concentration in a gel loading buffer

A fast and efficient spin column protein assay. Simply add the protein sample to the SPN[™] spin columns and wash to remove non-protein agents, including detergents and chaotropes. Next add the protein dye and spin to remove free dye. After a second brief wash, elute the protein bound dye with the supplied elution buffer and measure the optical density of the dye. The concentration of protein is determined by comparing the optical density data to the supplied reference data.

- Linear response between 0.5g and 10g
- Manual, semi-automatic or fully automated compatible
- · Unaffected by non-protein chemicals and agents
- Rapid assay; protein standards not required
- Small sample requirement
- No toxic agents used, laboratory and environment safe

Product Number	Description	Pkg Size	Price
GB786020	SPN [™] Protein Assay Sufficient for 50 Assays Includes: SPN [™] Columns, 50 SPN [™] Assay Dye, 5 mL SPN [™] Wash Buffer-I, 10 mL SPN [™] Wash Buffer-II, 50 mL SPN [™] Elution Buffer, 50 mL SPN [™] Tables I and II, Lot Specific, 2	Kit	\$214.00

* The SPN[™] Protein Assay Kit is also available in a 96 well plate format. Please contact our Technical Support Department for more information.

G-BIOSCIENCES PROTEIN ASSAY ACCESSORIES

Product Number	Description	Pkg Size	Price
GB786006	Bovine Serum Albumin Standard, (2 mg/mL)	2 x 5 mL	\$47.20
GB786007	Bovine Gamma Globulin Standard, (2 mg/mL)	2 x 5 mL	47.20
GB786114	Pre-diluted BSA Protein Standards, (0.1 mg/mL -1.0 mg/mL)	6 x 1 mL	44.50
GB786114G	Pre-diluted γ -Globulin Protein Standards, (0.1 mg/mL -1.0 mg/mL)	6 x 1 mL	44.50
GB786008	Assay Tubes, 2 mL reaction volume	500	78.80
GB786009	Assay Cuvettes, 1 mL volume	500	88.70

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ENZO[®] LIFE SCIENCES ProteoStat[™] PROTEIN AGGREGATION ASSAY

Improve your process

- Detects protein aggregates without the requirement for sample separation or dilution
- Provides a convenient complementary orthogonal method for cross-validation of instrumentationintensive techniques
- Compatible with commonly used buffers (PBS, Tris, HEPES) and excipients (trehalose & sucrose)
- Amenable to high-throughput assessment and optimization of different protein drug formulations
- Useful assay to troubleshoot protein damage during the manufacturing process
- Stringently manufactured, to control and eliminate non-specific assay artifacts Biochemical assays

Enzo Life Sciences' ProteoStat[™] Protein aggregation assay provides a simple, homogenous assay format for monitoring peptide and protein aggregation during manufacturing. The assay can be employed to streamline protein processing and optimize formulation procedures. Relative to conventional protein aggregation detection dyes, such as Thioflavin T, the ProteoStat[™] detection reagent can detect a broader range of different protein aggregates. The assay yields a much brighter signal, provides at least 2 orders of magnitude linear dynamic range, and offers superior performance across a broad range of pH values (4~10) and buffer compositions. Sensitivity of this assay is in the submicromolar range and as little as 1-5% protein aggregate is detectable in a protein solution. The assay provides a convenient mix and read format and delivers Z'- factor scores greater than 0.5. Therefore, the assay is capable of providing quantitative analysis of protein aggregation in a robust and high-throughput fashion. Lyophilized native and aggregated proteins are provided as negative and positive controls for monitoring changes in protein aggregation status.

Product Number	Description	Pkg Size	Price
ENZ51023KP002	ProteoStat [™] Protein Aggregation Assay Includes: ProteoStat [™] Detection Reagent, 22 µL ProteoStat [™] Positive Control, 300 µg, Aggregate ProteoStat [™] Negative Control, 300 µg, Monomer 10X ProteoStat [™] Assay Buffer, 15 mL	2 x 96 wells	\$523.40

ENZO[®] LIFE SCIENCES ProteoStat[™] THERMAL SHIFT STABILITY ASSAY

Conduct high-throughput protein stability screens

Producing proteins and peptides for drugs and research is time consuming and expensive. Care must be taken during production, storage and use of the protein to ensure that it remains stable and active. One of the most common problems involved in the storage of proteins and peptides is the formation of aggregates over time. It is desirable to implement a method that can rapidly screen conditions that may help stabilize a protein and prevent aggregation.

The ProteoStat[™] Thermal Shift Stability Assay is a rapid, simple screening method based on a dye that detects protein aggregates. The assay does not require any prior knowledge of protein structure, sequence or ligand binding activity. This dye in the assay is based on a molecular rotor that has very low fluorescence in the absence of aggregated proteins, but fluoresces brightly when bound to the surface of protein aggregates.

- · High-throughput thermal shift assay for determining the impact of ligand-protein interactions on target protein stability
- Suitable for accelerated analysis of parameters impacting monoclonal antibody and recombinant protein stability (pH, ionic strength, cryoprotectants, excipients)
- Measures aggregation temperature, providing more flexibility than assays using environment-sensitive dyes to measure unfolding temperature, where detergent and hydrophobic compound interference can be problematic
- Assay is readily performed using a wide range of thermally-controlled fluorescence reading devices (Fluorimeters or real-time
- PCR instruments)

Product Number	Description	Pkg Size	Price
ENZ51027K400	ProteoStat [™] Thermal Shift Stability Assay, 400 Assays Includes: ProteoStat [™] TS Detection Reagent (1000X), 25 μL β-Lactoglobulin Control, 16 mg 10X Assay Buffer, 1.2 mL	Kit	\$445.20

ENZO® LIFE SCIENCES PROTEIN A EIA KIT

Detect Protein A residuals

The Protein A EIA kit is a colorimetric immunometric enzyme immunoassay kit for the quantitative determination of residual Protein A contamination in Protein A purified IgG preparations from any species. This is a sensitive, accurate, and reproducible sandwich assay to measure natural and recombinant Protein A residuals in antibody-based products.

- Results in < 3 hours
- Absorbance is read at 450 nm
- Ultra-sensitive quantification (< 1 ppm) of Protein A residuals in purified humanized monoclonal antibody preparations
- Kit recognizes four different Protein A constructs

Product Number	Description	Pkg Size	Price
ENZ900057	Protein A EIA, 96 wells Sensitivity: 3.35 pg/mL (range 15.63 - 1,000 pg/mL)	Kit	\$426.40

www.biolynx.ca

G-BIOSCIENCES FOCUS[™] MITOCHONDRIA

Fractionation and enrichment of intact, active mitochondria

Specifically designed for the isolation of intact mitochondria from cultured mammalian cells. This kit allows for the fast and efficient fractionation of the cytoplasm of cultured mammalian cells into an enriched fraction of mitochondria. The majority (>90%) of the mitochondria have intact inner and outer membranes and therefore retain their functionality. This kit is highly adaptable for use with animal tissues and other sources of mitochondria.

Product Number	Description	Pkg Size*	Price
GB786022	FOCUS [™] Mitochondria Kit Includes: SubCell Buffers I, II, IV and V Mitochondria Storage Buffer, 1 Mitochondria Storage Compor		\$278.30

* 1 Prep is equivalent to 2 x 107 mammalian cells or 100 mg mammalian tissue

G-BIOSCIENCES FOCUS[™] GLOBAL FRACTIONATION

Fractionation and enrichment of cytosolic and membrane signal, peripheral or integral proteins

The FOCUS[™] Global Fractionation kit is designed to fractionate complex biological samples into cytosolic and membrane fractions. The resulting membrane fractions are subsequently fractionated into either peripheral and integral membrane proteins or lipid raft associated proteins and detergent soluble membrane proteins.

Fractionation of complex proteomes into multiple, specific fractions
Fractionation of membrane proteins from lipid rafts

	Product Number	Description	Pkg Size*	Price
Membrane Protein Extraction Buffer, 50 mL Membrane Protein Extraction Buffer, 50 mL Membrane Signal Protein Extraction Buffer, 50 mL FOCUS [™] Protein Solubilization Buffer, 25g FOCUS [™] Extraction Buffer, 30 mL	GB786018	Includes: Soluble Protein Extraction Buff Membrane Protein Extraction E Membrane Signal Protein Extra FOCUS [™] Protein Solubilization	er, 50mL Buffer, 50 mL action Buffer, 50 m Buffer, 25g	\$207.40 nL

 * 1 prep is: 100mg mammalian tissue; 50µL wet animal cell pellet; 50µL wet yeast pellet; 50µL wet bacteria pellet; 250mg plant tissue.

G-BIOSCIENCES FOCUS[™] PhosphoRich[™]

FOCUS[™] PhosphoRich[™] is a ready-to-use kit that enriches phosphorylated proteins and phosphopeptides from complex biological samples. The kit contains spin columns that have a phosphoprotein binding resin with a binding capacity of ~20mg phosphorylated ovalbumin per column.

Product Number	Description	Pkg Size	Price
GB786255	FOCUS [™] PhosphoRich [™] Includes: Phospho-Lysis Buffer, 25 mL Phospho-Wash Buffer, 25 mL Phospho-Elution Buffer, 25 mL Phospho-Columns, 5	50 Preps	\$408.00



think proteins....think G-Biosciences

G-BIOSCIENCES FOCUS[™] GLYCOPROTEIN

The FOCUSTM Glycoprotein kit is based on lectin binding of specific glycoproteins with terminal α -D mannosyl and α -D glycosyl proteins.

The FOCUS[™] Glycoprotein kit isolates glycoproteins from complex biological solutions using spin columns that contain lectin (Concanavalin A) bound resin with the capacity to bind and immobilize ~5mg glycoproteins. Column bound glycoproteins are eluted with a set of three rapid elution buffers. The proprietary serial elution allows for faster elution compared to other glycoprotein purification systems.

Product Number	Description	Pkg Size	Price
GB786253	FOCUS [™] Glycoprotein Includes: Glyco-Loading Buffer, 50 mL Glyco-Elution Buffer I, 5 mL Glyco-Elution Buffer II, 5 mL Glyco-Elution Buffer III, 5 mL Glyco-Columns, 5	50 Preps	\$265.00

G-BIOSCIENCES AlbuminOUT

For easy removal of Albumin

AlbuminOUT[™] will remove over >98% albumin from 5-50µL human plasma. The spin column format allows removal of albumin within 10 minutes. The high capacity blue-dye binding resin (Capacity, 10-20 mg/ mL resin) allows instantaneous binding and removal of albumin from human, pig, sheep, dog, rabbit, rat, and bovine samples.

- Removal of albumin from samples in less than 10 minutes
- Based on binding of albumin with Cibachron[™] Blue dye
- Column capacity > 2 mg human albumin per column
- Removes over >98% albumin from 5-50 μ L human plasma





2D gel of whole human serum showing albumin

2D gel of human serum after removal of albumin with AlbuminOUT[™]

Product Number	Description	Pkg Size	Price
GB786251	AlbuminOUT [™] Sufficient for 25 preps Includes: Albumin Binding Buffer, 25 mL Albumin Elution Buffer, 6 mL AlbuminOUT [™] Spin Column, 25 2 mL Collection Tubes, 50	Kit	\$224.00
GB786252	AlbuminOUT [™] Sufficient for 50 preps Includes: Albumin Binding Buffer, 2 x 25 mL Albumin Elution Buffer, 2 x 6 mL AlbuminOUT [™] Spin Column, 50 2 mL Collection Tubes, 100	Kit	408.00

G-BIOSCIENCES PROTEIN FRACTIONATION AND ENRICHMENT KITS

G-Biosciences offers a wide selection of fractionation kits for processing samples from cells, tissues, bacteria, yeast, plants and other types of samples. The FOCUS[™] line of products allow for the fractionation of biological samples into a multitude of different fractions. These resulting fractions are compatible with 2D electrophoresis and subsequent protein identification techniques.

G-BIOSCIENCES FOCUS[™] SOLUBLE AND INSOLUBLE

A complete kit for the selective preparation of soluble (hydrophilic) and insoluble (hydrophobic) proteins from mammalian tissues and cells, plants, yeast, bacteria, and other biological samples. The kit comes with reagents necessary for fractionation of soluble and insoluble fractions, including a strong chaotropic extraction buffer to solubilize difficult proteins.

The FOCUS[™] Soluble & Insoluble kit is supplied with a specific clean-up kit for the preparation of each fraction for isoelectric focusing and 2D electrophoresis for improved spot resolution.

Product Number	Description	Pkg Size*	Price
GB786247	FOCUS [™] Soluble and Insoluble Includes: Soluble Protein Extraction Buffer, 5 FOCUS [™] Protein Solubilization Bu FOCUS [™] Extraction Buffer, 30 mL Perfect-FOCUS [™] Sample Prepara	ffer, 25 g	\$321.60

*1 prep is: 100mg mammalian tissue; 50μL wet animal cell pellet; 50μL wet yeast pellet; 50μL wet bacteria pellet; 250mg plant tissue.

G-BIOSCIENCES FOCUS[™] SIGNAL PROTEINS

Fractionation of signal proteins enriched in lipid rafts

Lipid rafts are membrane microdomains that are enriched in caveolin, cholesterol, glycolipids, sphingolipids and glycosyl-phosphatidylinositol. FOCUS[™] Signal Proteins kit fractionates lipid raft localized proteins from other cellular proteins by employing non ionic detergents. Signal Protein Extraction Buffer is a proprietary formulation of non-ionic detergents designed to efficiently extract and remove soluble proteins, leaving lipid rafts containing signal proteins as a detergent insoluble fraction. The resulting rafts are then solubilized in FOCUS[™] Protein Solubilization Buffer, a supplied 2D electrophoresis compatible buffer or a different buffer of choice.

Product Number	Description	Pkg Size*	Price
GB786250	FOCUS [™] Signal Proteins Includes: FOCUS [™] Signal Protein Extraction FOCUS [™] Signal Protein Extraction FOCUS [™] Protein Solubilization Buf FOCUS [™] Extraction Buffer, 30 mL	Buffer II, 50 mL	\$179.60

*1 prep is: 100mg mammalian tissue; 50μL wet animal cell pellet; 50μL wet yeast pellet; 50μL wet bacteria pellet; 250mg plant tissue.



G-BIOSCIENCES FOCUS[™] - CYTOPLASMIC AND NUCLEAR PROTEINS

Fractionation and enrichment of cytoplasmic and nuclear proteins

A simple method for fractionation of cytoplasmic and nuclear proteins from cells and tissues. The fractionation method is based on gentle lysis of sample followed by centrifugation to collect and separate nuclei from the rest of cytoplasmic proteins. For proteomic as well as expression and transport studies.

Product Number	Description	Pkg Size	Price
GB786248	FOCUS [™] - Cytoplasmic and Nuclear Protein Includes: SubCell Buffer-II, 50mL SubCell Buffer-II, [3X], 25mL SubCell Buffer-II, 25mL SubCell Buffer-IV, 20mL FOCUS [™] Protein Solubilization E DILUENT- III, 30mL Perfect-FOCUS [™] , 1 kit		\$321.60

G-BIOSCIENCES FOCUS[™] - MEMBRANE PROTEINS

Fast and efficient fractionations of membrane proteins

For fractionation of highly enriched membrane proteins using a single step phase partition. Membrane proteins are extracted with an efficiency greater than 90% with minimal cross-contamination (<10%) from hydrophilic proteins.

Product Number	Description	Pkg Size	Price
GB786249	FOCUS [™] Membrane Proteins Includes: Membrane Protein Extraction Buff Membrane Protein Extraction Buff FOCUS [™] Protein Solubilization Buffer, 30 mL Perfect-FOCUS [™] , 1 kit	er-II, 50mL Iffer, 50mL	\$321.60

G-BIOSCIENCES FOCUS[™] SubCell

Total subcellular fractionation of cells and tissues

The FOCUS[™] SubCell Kit is designed for the total subcellular fractionation of cells and mammalian tissue into enriched fractions of nuclear, mitochondrial, cytosolic and membrane proteins.



The resulting mitochondrial fraction can be subsequently separated into heavy and light fractions by gradient centrifugation. The resulting mitochondria are >90% active and have intact inner and outer membranes.

- Fractionate into nuclear, mitochondrial, cytosolic and membrane proteins
- Adaptable for animal tissue

Product Number	Description	Pkg Size	Price
GB786260	FOCUS [™] SubCell Includes: SubCell Buffers I to V Mitochondria Storage Buffer, 10 mL Mitochondria Storage Component,		\$312.70

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PROTEIN EXTRACTION REAGENTS

G-BIOSCIENCES FOCUS[™] PROTEOME KITS

Protein isolation for biochemical applications

FOCUS[™] Proteome Kits are used for the preparation of total protein, including soluble, insoluble, membrane, cytoplasmic, nuclear, signal, phospho- and glyco- proteins.

- · Simple to use and improve the quality of protein analysis
- Suitable for the analysis of proteins using electrophoresis and other biochemical techniques

G-BIOSCIENCES FOCUS[™] MAMMALIAN PROTEOME

The FOCUS[™] Mammalian Proteome Kit extracts and solubilizes total proteins from mammalian tissues and cells by using a chaotropic buffer to solubilize even the most difficult proteins. This product is suitable for biological samples from animal tissues as well as adherent and suspension cells.

- Single step extraction protocol
- For 50 x 100 mg of animal tissue or 50 μL of wet cell pellet preparation

Product Number	Description	Pkg Size	Price
GB786246	FOCUS [™] Mammalian Proteome Includes: FOCUS [™] Protein Solubilization Buffer (FPS Buffer), 25g FOCUS [™] Extraction Buffer, 30 mL	50 Preps	\$151.50

G-BIOSCIENCES FOCUS[™] CYTOPLASMIC AND NUCLEAR PROTEINS

FOCUS[™] Cytoplasmic and Nuclear proteins fractionation kit is based on the Nuclear and Cytoplasmic Extraction Kit, however it has been modified to be fully compatible with 2D electrophoresis and subsequent downstream processes.

- Includes chaotropic extraction buffer for solubilization of nuclear and cytoplasmic proteins
- This kit is designed for >50 preps, depending on the tissue used, where one prep is 20 x 10⁶ mammalian cells or 100mg mammalian tissue

Product Number	Description	Pkg Size	Price
GB786248	FOCUS [™] Cytoplasmic and Nuclear Proteins	50 Preps	\$321.10

G-BIOSCIENCES FOCUS[™] - BACTERIAL PROTEOME

Maximize bacterial protein extraction

44

The FOCUS[™] Bacterial Proteome Kit is specifically designed for bacterial research and is supplied with bacterial specific reagents. It extracts and solubilizes nearly all of the proteins from E. coli, including membrane as well as soluble proteins. Extraction is based on gentle lysis of bacterial cells with longlife [™]-Lysozyme enzyme preparation specifically prepared and stabilized for long term use, followed by extraction of total proteome.

Product Number	Description	Pkg Size	Price
GB786258	FOCUS™ Bacterial Proteome Includes: FOCUS™ Protein Solubilization Buffer [FPS Buffer], 25 g DILUENT- III, 30 mL Bacterial Suspension Buffer, 25 Longlife™ Lysozyme (1,500 units		\$263.90

G-BIOSCIENCES FOCUS[™] - YEAST PROTEOME

Preparation of yeast proteome for analysis

The FOCUS[™] - Yeast Proteome Kit has been specifically designed for yeast research and supplied with yeast specific reagents. Extracts and solubilizes nearly all of the proteins from yeast, including membrane as well as soluble proteins. Extraction is based on the gentle lysis of yeast cells with a yeast lysis enzyme preparation (Longlife[™] Zymolyase) specifically prepared and stabilized for long term use. This is followed by extraction of total proteome.

- Simple extraction protocol
- Supplied with a yeast specific lytic enzyme preparation
- Supplied with a strong proprietary chaotropic extraction buffer
- Extraction of total proteins from yeast cells
- Suitable for sample preparation for 2D gel electrophoresis and other applications

Product Number	Description	Pkg Size	Price
GB786257	FOCUS [™] - Yeast Proteome Includes: FOCUS [™] Protein Solubilization Buffer [FPS Buff DILUENT- III, 30 mL Yeast Suspension Buffer, 15 mL Longlife [™] Zymolyase (1500 units/	1. 0	

G-BIOSCIENCES FOCUS[™] INSECT PROTEOME

FOCUS[™] Insect Proteome extracts and solubilizes nearly all of the proteins from insect cell cultures (i.e. Sf9 and Sf21), including membrane as well as soluble proteins, using a strong chaotropic extraction buffer to solubilize even the most difficult proteins.

- For the extraction of protein from 50 x 50 μL insect cell pellets
- Single step extraction protocol

Product Number	Description	Pkg Size	Price
GB786360	FOCUS [™] Insect Proteome Includes: FOCUS [™] Protein Solubilization Buffer (FPS Buffer), 25g FOCUS [™] Extraction Buffer, 30 mL	50 Preps	\$205.10

G-BIOSCIENCES FOCUS[™] PLANT PROTEOME

FOCUS[™] Plant Proteome is specifically designed for plant research and supplied with plant specific reagents, including reagents for removal of plant pigments and other natural products that may interfere with protein analysis.

- Simple extraction protocol
- Extracts and solubilizes membrane and soluble proteins
- Extracts plant proteome from 25 x 0.5 g plan tissue preparations

Product Number	Description	Pkg Size	Price
GB786259	FOCUS [™] Plant Proteome Includes: FOCUS [™] Protein Solubilization Buffer (FPS Buffer), 25g FOCUS [™] Extraction Buffer, 30 mL Perfect-FOCUS [™] Sample Prepara		\$312.70

MACHEREY-NAGEL PROTINO® Ni-TED/IDA

For easy purification of His tagged proteins

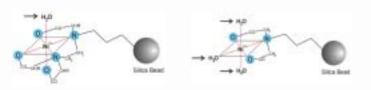
Macherey-Nagel Protino[®] Ni-TED and Ni-IDA products enable fast and convenient purification of recombinant polyhistidine-tagged proteins by immobilized metal ion affinity chromatography (IMAC). Protino[®] Ni-IDA and Ni-TED are dry silica-based resins precharged with Ni²⁺ ions.

PROTINO® Ni-IDA

IDA (iminodiacetic acid) is a three dentate chelator which occupies three of the six binding sites in the coordination sphere of the Ni²⁺ ion. The remaining three coordination sites are usually occupied by water molecules and can be exchanged with histidine residues of the recombinant protein. Ni-IDA ensures strong and efficient binding of the target protein. Binding Capacity: 20 mg/g resin.

PROTINO® Ni-TED

Ligand TED is a strong pentadentate metal chelator of Ni²⁺ which minimizes metal leaching during purification. The single protein binding site with Ni²⁺ increases specificity of polyhistidine-tagged proteins providing excellent purifity. Binding Capacity: 10 mg/g resin.



Protino[®] Ni-TED

Protino® Ni-IDA

Product		Pkg	
Number	Description	Size	Price
MCN74510010	Protino [®] Ni-TED 150, 10 Preps Protein Binding Capacity 400 µg* Includes: Packed Columns Buffers	Kit	\$57.70
MCN7451105	Protino® Ni-TED 1000, 5 Preps Protein Binding Capacity 2.5 mg* Includes: Packed Columns Buffers	Kit	45.00
MCN7451205	Protino [®] Ni-TED 2000, 5 Preps Protein Binding Capacity 5 mg* Includes: Packed Columns BufferLEW Elution Buffer	Kit	57.70
MCN7452005	Protino [®] Ni-TED Resin	5 g	64.80
MCN74520030	Protino [®] Ni-TED Resin	30 g	224.20
MCN74515010	Protino [®] Ni-IDA 150, 10 Preps Protein Binding Capacity 800 µg* Includes: Packed Columns Buffers	Kit	57.70
MCN7451605	Protino [®] Ni-IDA 1000, 5 Preps Protein Binding Capacity 5 mg* Includes: Packed Columns Buffers	Kit	45.00
MCN7451705	Protino [®] Ni-IDA 2000, 5 Preps Protein Binding Capacity 10 mg* Includes: Packed Columns Buffers	Kit	57.70
MCN7452105	Protino [®] Ni-IDA Resin	5 g	64.80
MCN74521030	Protino [®] Ni-IDA Resin	30 g	224.20

* Refers to 6xHis-GFPuv (32 kDA)

** Also available in different package sizes and formats. Please contact our Technical Support Department for more information.

G-BIOSCIENCES CARRIER PROTEINS

Widely used immunological grade carrier proteins in single use quantities and aliquots

G-Biosciences offers Bovine Serum Albumin (BSA; 67 kDA) and Keyhole Limpet Hemocyanin (KLH; 450-13,000 kDA) in single-use OneQuant[™] format as well as in the single tube format.

HyperCarrier[™] is normal BSA that has been treated with ethylene diamine, which substitutes anionic carboxyl groups with cationic aminoethyl-amide groups. This cationized form stimulates a higher immunogenic response, compared to normal BSA, and allows for a greater concentration of coupled peptides.

ActiveHOOK[™] Carrier Proteins have been preactivated with the heterobifunctional protein cross linker sulfoSMCC and therefore are ready for the addition of a cysteine containing peptide. A simple one step reaction.



Product Number	Description	Pkg Size	Price
GB786090 GB786091 GB786092 GB786093 GB786094	OneQuant [™] BSA OneQuant [™] KLH OneQuant [™] HyperCarrier [™] OneQuant [™] ActiveHOOK [™] BSA OneQuant [™] ActiveHOOK [™] KLH	8 x 2 mg 8 x 2 mg	\$60.70 147.80 281.60 162.60 396.00
GB786095	OneQuant [™] ActiveHOOK™ HyperCarrier [™]	8 x 2 mg	401.50
GB786086 GB786087 GB786088 GB786089 GB786096 GB786097	BSA ActiveHOOK [™] BSA KLH ActiveHOOK [™] KLH HyperCarrier [™] ActiveHOOK [™] HyperCarrier [™]	10 mg 10 mg 10 mg 10 mg 10 mg 10 mg	35.10 117.00 117.00 263.90 208.40 320.40

G-BIOSCIENCES HOOK[™] CELL SURFACE PROTEIN ISOLATION

For the biotin labeling and subsequent isolation of cell surface proteins

The kit is compatible with a wide variety of mammalian cells and can be used to compare treated vs. untreated cells as well as differences between cell lines

Applications include:

- · Cell surface protein isolation
- Receptor:ligand interaction studies
- Membrane trafficking studies

Product Number	Description	Pkg Size*	Price
GB786316	HOOK [™] Cell Surface Protein Isolation Kit Includes: HOOK [™] Sulfo-NHS-SS-Biotin Streptavidin-Agarose Columns witt Collection Tubes, Mammalian Cell HOOK [™] Quench Buffer Jaw [™] Phosphate Buffered Saline a	PE Ĺ₿™	\$222.80 dtt

* Supplied with sufficient reagents for 5 reactions with each reaction consisting of four 90-95% confluent T-75cm² flasks

G-BIOSCIENCES AFFINITY CHROMATOGRAPHY RESINS

For the separation and purification of proteins

The Streptavidin Resin is designed for the single step affinity purification of proteins and antibodies with a biotin tag. The advantage of streptavidin is that the lack of carbohydrates significantly reduces the amount of non-specific binding.

The resin consists of streptavidin coupled to ~4% cross-linked agarose, via a 15 carbon spacer arm. It has a binding capacity >100nmoles/ml resin.

Glutathione Resin for GST

GST-tagged proteins are purified by their reversible association to immobilized glutathione and are eluted with the competitive ligand, reduced glutathione.

The resin consists of reduced glutathione (GSH) covalently coupled to 4% cross-linked agarose, via a 10-carbon spacer arm. The resin has a binding capacity of ~8mg GST/mL drained resin.

Nickel Chelating Resin for 6XHIS

His-tagged proteins contain six consecutive histidines and affinity chromatography utilizes the fact that histidines bind chelated transition metal ions. The purification of His-tagged proteins is carried out by immobilized metal affinity chromatography (IMAC) with nickel being the preferred metal ion. Elutions of tag proteins is achieved with imidazole.

The resin consists of imminodiacetate coupled to 6% cross-linked agarose beads. The imminodiacetate binds divalent nickel ion with a capacity of 20-40 moles Ni^{2+}/mL resin.

Calmodulin Resin for CBP

PROTEOM

Calmodulin binding peptide tagged proteins can be rapidly and efficiently purified with our calmodulin resin. A major benefit is that protein elution only requires 2 mM EGTA at neutral pH; extremely gentle conditions to help maintain the proteins activity and structure.

The resin consists of 4% agarose coupled to calmodulin and has a density of approximately 1mg calmodulin/mL resin.

Product Number	Description	Pkg Size	Price
GB786555	Streptavidin Resin Kit Includes: Resin, 5 mL Binding/Wash Buffer, 100 mL Elution Buffer, 100 mL Micro Spin Columns, 5 Medi Spin Columns, 5	Kit	\$410.20
GB786390	Streptavidin Resin	5 mL	321.60
GB786550	Glutathione Resin Kit Includes: Resin, 5 mL Binding/Wash Buffer, 100 mL Elution Buffer, 100 mL Micro Spin Columns, 5 Medi Spin Columns, 5	Kit	298.30
GB786280	Glutathione Resin	10 mL	222.80
GB786551	Nickel Chelating Resin Kit Includes: Resin, 5 mL Binding/Wash Buffer, 100 mL Elution Buffer, 100 mL Micro Spin Columns, 5 Medi Spin Columns, 5	Kit	465.70
GB786281	Nickel Chelating Resin	12.5 mL	275.00
GB786552	Calmodulin Resin Kit Includes: Resin, 5 mL Binding/Wash Buffer, 100 mL Elution Buffer, 100 mL Micro Spin Columns, 5 Medi Spin Columns, 5	Kit	443.90
GB786282	Calmodulin Resin	10 mL	366.70

MACHEREY-NAGEL Protino® GLUTATHIONE AGAROSE 4B

Purification of GST-tagged proteins

Protino[®] Glutathione Agarose 4B enables fast and convenient purification of



recombinant Glutathione-S-Transferase (GST)-tagged proteins from whole cell extracts by affinity chromatography.

Binding of protein is based on the selective interaction between the Glutathione-S-Transferase tag of the recombinant protein and the immobilized glutathione of the affinity resin. The binding process is highly specific and selective. Thus, only one chromatographic step leads to a high degree of purification.

- · High Flexibility for batch, gravity flow and FPLC
- Universal Use Suitable for small proteins, large protein complexes, proteins with low expression rates
- A cost effective alternative for GST-tag purification

Product Number	Description	Pkg Size*	Price
MCN74550010	Protino [®] Glutathione Agarose 4B	10 mL	\$201.00
MCN745500100	Protino [®] Glutathione Agarose 4B	100 mL	1,479.70

MACHEREY-NAGEL NucleoSpin® RNA/PROTEIN

Total RNA and protein from one lysate

The NucleoSpin[®] RNA/Protein Kit enables isolation of RNA and protein from diverse sample types. Protein and RNA are isolated without splitting the sample prior to extraction. Thus, protein and RNA are obtained from one and the same sample and not from two similar portions of one sample.

- · RNA and Protein from one lysate
- Simple and fast procedure no phenol, no chloroform, no acetone
- High quality RNA RNA is suitable for all common downstream applications e.g. RT-PCR, blotting, or microarray
- Parallel DNA purification possible kits can be combined with the optional NucleoSpin[®] RNA/DNA buffer set

Product Number	Description	Pkg Size	Price
MCN74093310	NucleoSpin [®] RNA/Protein Kit, 10 Preps	Kit	\$77.30
MCN74093350	NucleoSpin [®] RNA/Protein Kit, 50 Preps	Kit	306.30

G-BIOSCIENCES DISPOSABLE COLUMNS

Affordable, disposable columns available in three convenient sizes

- Resealable columns for use with affinity resins
- Columns are supplied with caps to seal both column ends



Product Number	Description	Pkg Size	Price
GB786169	Empty Disposable Columns with caps, Medi (1-5 mL)	25	\$96.10
GB786197	Empty Disposable Columns with caps, Maxi (2-20 mL)	25	102.30
GB786198	Empty Disposable Columns with caps, Micro (<1 mL)	10	43.20



G-BIOSCIENCES HOOK[™] AGAROSE COUPLING KITS

For the coupling of peptides and proteins to agarose beads

An important tool in research is the generation of peptide and protein affinity columns for the purification of antibodies and for the discovery of important interacting proteins and cofactors. G-Biosciences offers two kits for the coupling of peptides and proteins to agarose through their primary amines or sulfhydryl residues. These kits generate stable bonds resulting in columns that can be used several times.

HOOK[™] Agarose Coupling Kit (Amine Reactive)

The amine reactive HOOK[™] Agarose Coupling Kit is designed for the simple and efficient coupling of proteins and peptides to a solid support. The kit allows the generation of both a stable and reusable column for the affinity purification of antibodies, proteins and other protein interacting biomolecules. This kit utilizes 6% agarose that has been activated to generate reactive aldehyde groups. The aldehyde groups of the agarose react spontaneously with primary amines, located at the N-terminus of proteins or in lysine residues, to form intermediate Schiff Base complexes. These, in turn, are selectively reduced by reductive amination to form stable amine linkages between the agarose and the ligand.

HOOK[™] Agarose Coupling Kit (Sulfhydryl Reactive)

The sulfhydryl reactive HOOK[™] Agarose Coupling kit utilizes 6% agarose that has been activated to generate reactive aminoethyl groups. The kit utilizes the heterobifunctional chemical crosslinker sulfoSMCC (Sulfosuccinimidyl 4-(N-maleimidomethyl)cyclohexane-1-carboxylate) to couple peptide sulfhydryl groups, found on cysteine side chains, to the aminoethyl on the agarose. sulfoSMCC is a heterobifunctional crosslinker that conjugates between sulfhydryl and primary amine residues. The N-hydroxysuccinimide (NHS) ester in sulfoSMCC reacts with primary amines to form covalent amide bonds and the maleimide group reacts with sulfhydryl groups to form stable thioether bonds. The resulting bonds are stable, allowing the columns to be reused.

- · Coupling of proteins and peptides to agarose beads
- Suitable for antibody purification
- Discovery of new interacting proteins

Product Number	Description	Pkg Size	Price
GB786063	HOOK [™] Agarose Coupling Kit (Amine Reactive) Includes: 5X Optimizer Buffer [™] VI, 2 x 25 r Sodium Cyanoborohydride (NaC HOOK [™] Activated Agarose, 20 r Empty Columns, 5 Quenching Buffer, 25 mL	NBH3), 1 vial	\$327.50
GB786064	HOOK [™] Agarose Coupling Kit (Sulfhydryl Reactive Includes: 5X Optimizer Buffer [™] VI, 2 x 25 r OneQuant [™] sulfoSMCC, 1 vial HOOK [™] Activated Agarose, 20 r Empty Columns, 5 Blocking Reagent, 25 mL	nL	401.50
GB786065	HOOK [™] Activated Agarose (Sulfhydryl Reactive)	10mL	93.60
GB786066	HOOK [™] Activated Agarose (Amine Reactive)	10mL	139.20

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G-BIOSCIENCES HOOK[™] PEPTIDE COUPLING KITS

Coupling peptides to carrier proteins has never been easier

The **HOOK**[™] **Sulfhydryl Reactive Peptide Coupling Kit** is designed for the coupling of peptides to carrier proteins, utilizing a sulfhydryl group in the peptide. This kit exploits the chemical crosslinker sulfoSMCC (Sulfosuccinimidyl 4-(N-maleimidomethyl)cyclohexane-1-carboxylate) to couple peptides through their sulfhydryl groups, found on cysteine side chains, to the primary amines on the carrier proteins. The Nhydroxysuccinimide (NHS) ester in sulfoSMCC reacts with primary amines to form covalent amide bonds and the maleimide group reacts with sulfhydryl groups to form stable thioether bonds. If peptides do not contain a sulfhydryl group then G-Biosciences recommends and supplies Trauts reagent (2-IminothiolaneHCI). Trauts reagent modifies primary amines, located at the N-terminus and on lysine side chains, introducing a sulfhydryl group that is fully compatible with this kit.

The **HOOK[™] Amine Reactive Peptide Coupling Kit** is designed for the coupling of peptides to carrier proteins, utilizing the primary amines and carboxyl groups of the peptides and carrier proteins. This kit utilizes the chemical heterobifunctional crosslinker EDC (1-Ethyl-3-(3-dimethylaminopropyl) carbodiimide hydrochloride) to couple peptides to carrier proteins. EDC first reacts with the carboxyl groups, producing an amine reactive intermediate, O-acylisourea that rapidly reacts with the amine groups of the peptide/protein.

- · Simple to use
- · Suitable for all carrier proteins
- Utilizes Tube-O-Reactor[™] for minimum hands on time

Product Number	Description	Pkg Size	Price
GB786071	HOOK [™] Sulfhydryl Reactive Peptide Coupling Kit Includes: 5X Optimizer Buffer [™] III, 25 mL OneQuant [™] sulfoSMCC, 5 x 5 mg Tube-O-Reactor [™] , 1	Kit	\$341.60
GB786072	HOOK [™] Sulfhydryl Reactive Peptide Coupling Kit (BSA) Includes same components as GB786071 plus: OneQuant [™] Bovine serum albumin (BSA), 5 x 2 mg	Kit	375.40
GB786073	HOOK [™] Sulfhydryl Reactive Peptide Coupling Kit (KLH) Includes same components as GB786071 plus: OneQuant [™] Keyhole Limpet Hemocyanin (KLH), 5 ×	Kit 2 mg	443.90
GB786074	HOOK [™] Sulfhydryl Reactive Peptide Coupling Kit (HyperCarrier [™]) Includes same components as GB786071 plus: OneQuant [™] HyperCarrier [™] , 5 x 2 mg	Kit	593.00
GB786067	HOOK [™] Amine Reactive Peptide Coupling Kit Includes: 5X Optimizer Buffer [™] III, 25 mL EDC (1-Ethyl-3-(3-dimethylaminopropyl) carbodimide hydrochloride), 50 mg Tube-O-Reactor [™] , 1	Kit	242.80
GB786068	HOOK [™] Amine Reactive Peptide Coupling Kit (BSA) Includes same components as GB786067 plus: OneQuant [™] Bovine serum albumin, 5 x 2 mg	Kit	278.30
GB786069	HOOK [™] Amine Reactive Peptide Coupling Kit (KLH) Includes same components as GB786067 plus: OneQuant [™] Keyhole Limpet Hemocyanin, 5 x 2 mg	Kit	347.00
GB786070	HOOK [™] Amine Reactive Peptide Coupling Kit (HyperCarrier [™]) Includes same components as GB786067 plus: OneQuant [™] HyperCarrier [™] , 5 x 2 mg	Kit	498.30

G-BIOSCIENCES picoLUCENT[™] PLUS

Superior chemiluminescence detection with low background

- Based on a sensitive luminol and 1,2 dioxetane substrate that produces chemiluminescence upon reaction with horseradish peroxidase (HRP) or alkaline phosphatase (AP)
- The chemiluminescence light emission can be recorded by a short exposure to autoradiography films
- Allows detection of low picogram levels (10⁻¹²) of antigens with low noise (signal/background) ratio
- Suitable for PVDF or nitrocellulose membrane

Product Number	Description	Pkg Size	Price
GB78609	picoLUCENT [™] PLUS HRP Includes: picoLUCENT Luminol Solution picoLUCENT Luminol Solution femto TBST [10X], 250 mL NAP-Blocker [2X], 2 x 250 mL		\$178.60
GB78609R38	picoLUCENT [™] PLUS HRP with Goat anti-Mouse-HRP And Includes same components as GB78609 Goat anti-Mouse IgG-HRP, 2 mL		314.90
GB78609R39	picoLUCENT [™] PLUS HRP with Goat anti-Rabbit-HRP Ant Includes same components as GB78609 Goat anti-Rabbit IgG-HRP, 2 mL	· · · · ·	314.90
GB78609R42	picoLUCENT [™] PLUS HRP with Rabbit anti-Goat-HRP Ant Includes same components as GB78609 Rabbit anti-Goat IgG-HRP, 2 mL	· · · · ·	411.30
GB78609R41	picoLUCENT [™] PLUS HRP with Goat anti-Human-AP Antil Includes same components as GB78609 Goat anti-Human IgG H&L HRP, 2 mL	-	403.70
GB78609R48	picoLUCENT [™] PLUS HRP with Rabbit anti-Human-HRP A Includes same components as GB78609 Rabbit anti-Human IgG HRP, 1.5 mL	-	405.80
GB78609AP	picoLUCENT [™] PLUS AP Includes: picoLUCENT [™] PLUS AP Detec femtoTBST [10X], 250 mL NAP-Blocker [2X], 2 x 250 mL	1000 cm ² ction Reagent, 5	166.30 50 mL
GB78609APR43	picoLUCENT [™] PLUS AP with Goat anti-Mouse-AP Antib Includes same components as GB78609 Goat anti-Mouse IgG-AP, 1 mL	,	383.00
GB78609APR44	picoLUCENT [™] PLUS AP with Goat anti-Rabbit-AP Antib Includes same components as GB78609 Goat anti-Rabbit IgG-AP, 1 mL		383.00
GB78609APR47	picoLUCENT [™] PLUS AP with Rabbit anti-Goat-AP Antib Includes same components as GB78609 Rabbit anti-Goat IgG-AP, 1 mL	· ·	376.50
GB78609APR46	picoLUCENT [™] PLUS AP with Goat anti-Human-AP Antil Includes same components as GB78609 Goat anti-Human IgG-AP, 1 mL		376.50
GB78609APR49	picoLUCENT [™] PLUS AP with Rabbit anti-Human-AP An Includes same components as GB78609 Rabbit anti-Human IgG-AP, 1 mL	-	364.50

G-BIOSCIENCES femtoLUCENT[™] PLUS

An ultra sensitive immunodetection system

- Quick and sensitive non-isotopic detection of proteins on transfer membranes
- Economical Costs less than any other chemiluminescent system available for up to 5000 cm² membrane per kit
- Longer and more intense light emission
- Requires lower antibody concentration
- Option to reactivate after original signal is depleted
- Allows detection of as low as 10 fg protein on dot blot and 10 pg on Western blot experiments
- Supplied with a novel blocking agent which allows a rapid blocking step and produces a clear background
- The option to adjust exposure time, from several seconds to several minutes, for optimum detection of target antigens
- Suitable for Nylon, NC & PVDF membranes



Product Number	Description	Pkg Size	Price
GB78610	femtoLUCENT [™] PLUS-HRP Reagent Kit Includes: Detection Reagent-I, 0.5 mL Detection Reagent-II, 0.25 mL Detection Buffer (2X), 250 mL femtoTBST (10X), 250 mL BLOT-QuickBlocker [™] , 175 g	5000 cm ²	\$187.40
GB78610R38	femtoLUCENT [™] PLUS Detection System with Goat anti-mouse IgG H&L-HRP Includes same components as GB78610 Goat Anti-Mouse IgG H&L-HRP, 2 mL		337.30
GB78610R39	femtoLUCENT [™] PLUS Detection System with Goat anti-rabbit IgG H&L-HRP Includes same components as GB78610 Goat Anti-Rabbit IgG H&L-HRP, 2 mL	5000 cm ²	337.30
GB78610R42	femtoLUCENT [™] PLUS Detection System with Rabbit anti-goat IgG H&L-HRP Includes same components as GB78610 Rabbit Anti-Goat IgG H&L-HRP, 1.5 mL	5000 cm ²	440.60
GB78610AP	femtoLUCENT [™] PLUS AP Includes: AP Detection Reagent-Substrat femtoTBST [10X], 250 mL NAP-Blocker [™] , 2 x 250 mL	1500 cm ² ie, 50 mL	208.40
GB78610APR43	femtoLUCENT [™] PLUS AP with Goat anti-Mouse-AP Antibo Includes same components as GB78610/ plus Goat anti-Mouse IgG-AP, 1 mL	,	388.40
GB78610APR44	femtoLUCENT [™] PLUS AP with Goat anti-Rabbit-AP Antibo Includes same components as GB78610A Goat anti-Rabbit IgG-AP, 1 mL	· ·	388.40
GB78610AOR47	femtoLUCENT [™] PLUS AP with Rabbit anti-Goat-AP Antibo Includes same components as GB78610A plus Rabbit anti-Goat IgG-AP, 1 mL		381.90

USB Rodeo[™] ECL WESTERN BLOTTING REAGENTS

A well characterized detection chemistry for routine detection using HRP conjugated antibodies and luminol-based enhanced chemiluminescence.

Ease of Use



Rodeo[™] ECL Detection reagents may be used with standard protocols for chemiluminescent Western blot detection.

Ability to Re-Probe

- Blots detected with Rodeo ECL Reagents may be stripped and re-probed using standard procedures
- Rodeo[™] ECL Western Blotting Reagents are recommended for routine detection
- Uses enhanced luminol-based chemiluminescence
- Detects nanogram levels of target protein
- May be used with either nitrocellulose or PVDF membranes

Product Number	Description	Pkg Size	Price
UB72550	Rodeo [™] ECL Western Blotting Detection Kit Includes: Rodeo [™] ECL Detection Reagents Anti-Rabbit IgG HRP Conjugate, Anti-Mouse IgG HRP Conjugate, Rodeo [™] Blocker, 25 g Rodeo [™] Saddle Soap, 10% Solut	200 μL 200 μL	•
UB72551	Rodeo [™] ECL Western Blotting Reagent Pack Includes Rodeo [™] ECL Detection Reagents 1	100 cm ² and 2, 5 mL	36.90
UB72552	Rodeo [™] ECL Western Blotting Reagent Pack Includes Rodeo [™] ECL Detection Reagents 1	1000 cm ² and 2, 50 mL	116.10
UB72553	Rodeo [™] ECL Western Blotting Reagent Pack Includes Rodeo [™] ECL Detection Reagents 1	5000 cm ² and 2, 250 mL	201.90

USB Rodeo[™] SADDLE SOAP, 10% SOLUTION

Agent for reducing background on membranes (nitrocellulose, PVDF) used in Western blotting and other applications

Rodeo[™] Saddle Soap is a 10% oxidant-free detergent solution for Rodeo ECL Kit and other Western blotting applications . Rodeo[™] Saddle Soap is a novel detergent that reduces background on blots. It may be used as a direct replacement for Tween[®]-20 in Western blotting protocols. It may be purchased separately for use with the Rodeo[™] ECL Detection Reagents. Alternatively, Rodeo[™] Saddle Soap is conveniently included in the Rodeo[™] ECL Western Blotting Detection Kit.

Product Number		Pkg Size	Price
UB72566S1	Rodeo [™] Saddle Soap, 10% Solution 2	10 x 2 mL	\$76.50
UB72566S2	Rodeo [™] Saddle Soap, 10% Solution 5	5 x 10 mL	128.00

USB Rodeo[™] BLOCKER

Agent for blocking binding sites on membranes (nitrocellulose, PVDF) for Western blotting

Rodeo[™] Blocker is a milk based blocking agent to be utilized with the Rodeo[™] ECL Western blotting procedure to block non-specific protein binding sites on membranes. Suggested concentrations range from 1 to 5% in desired buffer for blocking and antibody dilutions. For best results, make Rodeo[™] Blocker solutions fresh daily or store for no longer than 1 week at 4°C. Note: Not recommended for blocking in the detection of strepavidin/biotin.

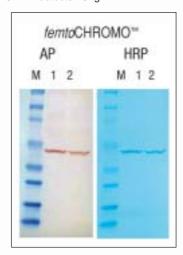
Product Number	Description	Pkg Size	Price
	Rodeo [™] Blocker	25 gm	\$30.20
	Rodeo [™] Blocker	100 gm	120.90

G-BIOSCIENCES femtoCHROMO[™]

Chromogenic detection kits for Western blots

femtoCHROMO[™] kits are a new range of products for the detection of alkaline phosphatase (AP) and horseradish peroxidase (HRP) labeled antibodies on Western or immunoblots.

- · Ready to use
- Single detection step
- High signal to background ration
- · High reproducibility, minimal fading
- femtoCHROMO[™] HRP detects >20ng
- femtoCHROMO[™] AP detects >5ng



Product Number	Description*	Pkg Size	Price
GB786385	femtoCHROMO [™] HRP Detection Kit Includes: TMB Substrate, 200 mL femto TBST (10X), 250 mL BLOT QuickBlocker [™] , 200g	2500 cm ²	\$160.70
GB786386	femtoCHROMO [™] HRP Detection Kit with Goat anti-Mouse-HRP Antibody Includes same components as GB786385 p Goat anti-Mouse IgG-HRP, 2 mL	4000 cm ²	278.30
GB786387	femtoCHROMO [™] HRP Detection Kit with Goat anti-Rabbit-HRP Antibody Includes same components as GB786385 p Goat anti-Rabbit IgG-HRP, 2 mL	4000 cm ²	278.30
GB786380	femtoCHROMO [™] AP Detection Kit Includes: BCIP-NBT Substrate, 200 mL femto TBST (10X), 250 mL BLOT QuickBlocker [™] , 200g	2500 cm ²	165.10
GB786381	femtoCHROMO [™] AP Detection Kit with Goat anti-Mouse-AP Antibody Includes same components as GB786380 p Goat anti-Mouse IgG-AP, 2 mL	4000 cm ²	304.90
GB786382	femtoCHROMO [™] AP Detection Kit with Goat anti-Rabbit-AP Antibody Includes same components as GB786380 p Goat anti-Rabbit IgG-AP, 2 mL	4000 cm ²	304.90

* Substrates are also available separately. Please contact our Technical Support Department for more information.

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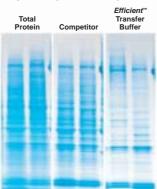
G-BIOSCIENCES Efficient[™] WESTERN TRANSFER BUFFER



Improved transfer buffer for increased protein transfer efficiency

Efficient[™] Western Transfer Buffer is a pre-made, ready-to-use 20x transfer buffer prepared for optimal conductivity and efficient protein transfer without generating excessive heat or transfer distortion.

UNTRANSFERRED PROTEIN



A comparison of protein transfer efficiency between EfficientTM Western Transfer Buffer stained gel after transfer (lanes 5-6) and a leading competitor stained gel after transfer (lanes 3-4). The total protein, before transfer, is shown in lanes 1 and 2. The image show the untransferred protein remaining in the gels. A high concentration of protein (75µg) was loaded to clearly show the difference in the transfer buffers.

Product Number	Description	Pkg Size	Price
GB786019	Efficient [™] Western Transfer Buffer [20x]	1L	\$63.40

G-BIOSCIENCES HIGH MOLECULAR WEIGHT TRANSFER BUFFER [5X]

Based on Efficient[™] Western Transfer Buffer, this buffer is designed to facilitate the transfer of notoriously difficult high molecular weight proteins (>70kDA) during Western blotting.

Product Number	Description	Pkg Size	Price
GB786423	High Molecular Weight Transfer Buffer [5X]	1L	\$67.80

G-BIOSCIENCES MEMBRANES AND PADDING

Pre-cut membranes are supplied sandwiched between blotting paper padding. Simply soak the membrane in transfer buffer and assemble with the gel in a transfer cassette.

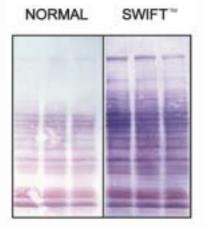
Product Number	Description	Pkg Size	Price
GB786018NC	Nitrocellulose Membrane and Padding – 7.5 x 8.5 cm	20	\$139.20
GB786018PV	PVDF Membrane and Padding – 7.5 x 8.5 cm	20	147.80
GB786056NC	Nitrocellulose Membrane and Padding – 10 x 10 cm	20	147.80
GB786056PV	PVDF Membrane and Padding – 10 x 10 cm	20	147.80

G-BIOSCIENCES SWIFT[™] TRANSFER PADS

Increase transfer efficiency and reduce transfer time

SWIFT[™] transfer pads are treated with a proprietary electrolyte buffer to enhance Western blot transfer efficiency (patent pending). Each SWIFT[™] transfer pad can reduce transfer time by over 50%, while consistently producing high efficiency transfer. The SWIFT[™] transfer pad technology prevents overheating and power shortages by allowing lower chemical concentrations in the transfer buffers, without affecting transfer efficiency. The SWIFT[™] transfer pad technology combines the simplicity of semidry sandwich assembly with the improved efficiency of wet blot transfers, reducing the need for assembly in large tanks of buffer. SWIFT[™] is compatible with any transfer system and is supplied with or without nitrocellulose or PVDF membranes.

- · High efficiency transfer
- Reduce transfer time by over 50%
- No overheating or power shorts
- · No distortion or poor high molecular weight protein transfer



Increase efficiency in protein transfer by SWIFT[™] transfer pad.

15 μg mouse liver protein was transferred normally (left) or with a SWIFT[™] transfer pad (right) for 30 minutes and the resulting membranes were stained for protein with BLOT-FastStain[™].

Product Number	Description	Pkg Size	Price
GB786370	SWIFT [™] Transfer Pad (7.5 x 8.5cm) Includes: 500mL SWIFT [™] Buffer	20	\$60.70
GB786371	SWIFT [™] Transfer Pad Nitrocellulose (7.5 x 8.5cm) Includes: 500mL SWIFT [™] Buffer	20	173.00
GB786372	SWIFT [™] Transfer Pad PVDF (7.5 x 8.5cm) Includes: 500mL SWIFT [™] Buffer	20	176.30
GB786373	SWIFT [™] Transfer Pad (9.5 x 15cm) Includes: 500mL SWIFT [™] Buffer	20	73.90
GB786374	SWIFT [™] Transfer Pad Nitrocellulose (9.5 x 15cm) Includes: 500mL SWIFT [™] Buffer	20	360.10
GB786375	SWIFT [™] Transfer Pad PVDF (9.5 x 15cm) Includes: 500mL SWIFT [™] Buffer	20	368.80

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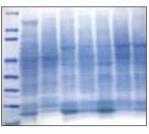
G-BIOSCIENCES BLOT FastStain[™]

Protein specific reversible stain for Western blot transfer membranes

A unique stain for reversibly staining protein on nitrocellulose and PVDF transfer membranes.

BLOT-FastStain[™] only stains proteins and leaves the background absolutely untouched and brilliant white resulting in high band visibility. The staining procedure takes 10 minutes and has a sensitivity of 2ng BSA - higher than silver stains. De-stain the membrane by simply rinsing in warm water for 10 minutes.

Staining and de-staining does not affect the biological properties of the proteins or downstream processing of the membranes.



Product Number	Description	Pkg Size	Price
GB78634	BLOT-FastStain [™] Sufficient for 25 Blots Includes: Reagent A: Fixer, 120 mL Reagent B: Developer, 125 mL	Kit	\$196.70

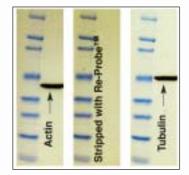
G-BIOSCIENCES Western Re-Probe[™]

For multiple probing of Western blots

Re-Probe[™] is specifically formulated to dissociate and remove antibodies from the membrane bound proteins without destroying the antigenic binding affinity. Therefore, you can reuse your Western blots after stripping with Re-Probe[™].

Removal of antibodies also removes corresponding chemiluminescent or radio-isotopic signals from the blots. The stripped blots can then be probed with new probes.

Re-Probe[™] is not recommended for stripping color producing Western blots that use substrates such as TMB, chloronapthol, and DAB.



Mouse liver extract after electrophoresis was transferred onto PVDF membrane. The Western blot was first probed for actin. After stripping the membrane with Re-Probe™, it was re-probed for tubulin antigens. Tubulin band was developed without loss of signal or background problems normally associated with re-probing.

Product Number	Description	Pkg Size	Price
GB786119	Western Re-Probe [™] [5X]	100 mL	\$155.20

G-BIOSCIENCES WESTERN BLOT BLOCKING BUFFERS

Blocking agents for Immunoassays

NAP-BLOCKER[™]

- A new non-animal blocking protein preparation for immunoassays
- For improved assay sensitivity, clean background, and a high signal-to-background ratio
- Non-animal protein it will not cross react with animal source antigens, or primary and secondary antibodies
- Free from biotin and other cross-reacting agents present in animal source blocking agents
- · Ensures uniform blocking without non-specific binding

BLOT QuickBlocker[™]

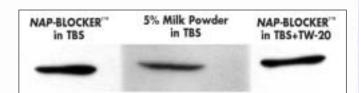
- Novel modified milk protein for rapid blocking
- BLOT QuickBlocker[™] produces a semi-clear solution, which allows users the option to examine blot membranes during the blocking procedures
- No inhibition to peroxidase
- Produces a clear background
- High blocking efficiency
- Blocking time of 10-15 minutes

BLOK[™] Blocking Products

BLOK™ BSA — a 10% BSA solution for blocking Westerns, ELISAs and Dot Blots. Available in TBS or PBS buffers.

BLOK™ Casein — a 1% Casein (w/v) solution for blocking Westerns, ELISAs and Dot Blots. Uses pH 7.4, Kathon as a preservative. Available in TBS or PBS buffers.

BLOK™ BLOTTO in TBS — a 5% novel modified mik protein solution for blocking Westerns, ELISAs and Dot Blots.



Product Number	Description	Pkg Size	Price
GB786190	NAP-BLOCKER [™] [2X]	1 L	\$201.80
GB786190PBS	NAP-BLOCKER™ [2X] in PBS	1 L	151.50
GB786190TBS	NAP-BLOCKER™ [2X] in TBS	1L	151.50
GB786011	BLOT QuickBLOCKER [™]	175 g	32.40
GB786192	BLOK [™] BLOTTO 5% modified milk solution	1 L	110.90
GB786193	BLOK™ BSA in TBS, 10% solution	125 mL	144.10
GB786194	BLOK™ Casein in PBS, 1% solution	1 L	124.40
GB786195	BLOK™ BSA in PBS, 10% solution	200 mL	141.70
GB786196	BLOK™ Casein in TBS, 1% solution	1 L	110.90

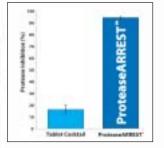
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ENZYME INHIBITORS

G-BIOSCIENCES ProteaseArrest[™]

ProteaseArrest[™] is a broad range protease inhibitor cocktail with wide species specificity. It contains agents to inhibit serine, cysteine, and metalloproteases as well as calpain proteases. ProteaseArrest[™] shows excellent inhibition of protease activity and is suitable for the protection of proteins during sample preparation and protein purification from animal tissues, plants, yeast and bacteria.





ProteaseArrest[™] outperforms tablet format protease inhibitor cocktails. Protease inhibiton in mouse pancreas lysate with ProteaseArrest[™] (EDTA-free) and a commercially available EDTA-free tablet protease cocktail was compared, using Protease Screening[™] Kit. The assay used 0.5mg/mL pancreas lysate and incubation conditions of 37°C for 2.5 hours. ProteaseArrest[™] inhibited over 95% of total proteases, almost 80% more protease inhibitor cocktail.

Bacterial ProteaseArrest[™] - Inhibits bacterial serine, cysteine and other bacteria specific proteases including aminopeptidases and aspartic proteases.

Plant ProteaseArrest^m - Inhibits plant serine, cysteine and other plant specific proteases including aminopeptidases, aspartic and metalloproteases.

Mammalian ProteaseArrest[™] - Inhibits mammalian serine, cysteine and other mammal specific proteases including aminopeptidases, trypsin-like and aspartic proteases.

Yeast/Fungal ProteaseArrest[™] - Inhibits yeast and fungal serine, cysteine and metalloproteases.

ProteaseArrest[™] cocktails contain:

- · Irreversible and reversible protease inhibitors
- Optional EDTA solution for inhibition of metalloproteases

Focus[™] ProteaseArrest[™]

Focus[™] ProteaseArrest[™] is fully compatible with 2D electrophoresis and subsequent mass spectrometry. It uses an alternative to EDTA as an inhibitor of metalloproteases to optimize the action of nucleases or to remove nucleic acids from samples. It also uses PMSF as its primary serine protease inhibitor as opposed to the commonly used pefabloc[®] which has been reported to modify proteins at high concentrations and results in artifacts in 2D electrophoresis and mass spectrometry.

Product Number	Description	Pkg Size	Price
GB786108	ProteaseArrest [™] [100X] Includes: EDTA Solution 0.5M [100X], 2mL	2mL	\$135.50
GB786329	OneQuant [™] ProteaseArrest [™] [100X] Includes: EDTA Solution 0.5M [100X], 2mL	24 x 100µL	173.70
GB786330	Bacterial ProteaseArrest [™] [100X] Includes: EDTA Solution 0.5M [100X], 2mL	2 mL	135.50
GB786332	Plant ProteaseArrest [™] [100X]	2 mL	135.50
GB786331	Mammalian ProteaseArrest [™] [100X] Includes: EDTA Solution 0.5M [100X], 2mL	2 mL	135.50
GB786333	Yeast/Fungal ProteaseArrest [™] [100X]	2 mL	135.50
GB786108F	Focus [™] ProteaseArrest [™] [100X]	1 mL	157.70

G-Biosciences also offers protease assays and screening systems.

Please contact our Technical Support Department for more information.

G-BIOSCIENCES ProteCEASE™

Protease inhibitor cocktail for large sample volumes

ProteCEASE[™] protease inhibitor cocktails contain optimized concentrations of various protease inhibitors, which can be used during protein purification from various samples including animals, plants, yeast, bacteria and fungal lysates.

- Greater than 90% protease inhibition
- Inhibits a wide variety of proteases, including cysteine, serine and metalloproteases
- Available with and without EDTA
- Supplied reconstitution buffer ensures all inhibitors dissolve in sample
- Designed for 50 and 100 m sample sizes



Product Number	Description	Pkg* Size	Price
GB786326	ProteCEASE [™] -50, EDTA Free 1 vial per 50 mL buffer Includes: ProteCEASE [™] Reconstitution Buffer,		\$191.80
GB786327	ProteCEASE [™] -100 EDTA Free <i>1 vial per 100 mL buffer</i> Includes: ProteCEASE [™] Reconstitution Buffer,	10 vials 2 x 2.5 mL	375.40
GB786334	ProteCEASE [™] -50 plus EDTA 1 vial per 50 mL buffer Includes: ProteCEASE [™] Reconstitution Buffer, EDTA Solution 0.5M [100X], 5 mL	10 vials 2 x 2.5 mL	191.80
GB786336	ProteCEASE [™] -100 plus EDTA 1 vial per 100 mL buffer Includes: ProteCEASE [™] Reconstitution Buffer, EDTA Solution 0.5M [100X], 5 mL	10 vials 2 x 2.5 mL	373.20

* ProteCEASE[™]-50 is also available in a 20 vial format.

G-BIOSCIENCES PhosphataseArrest[™]

PhosphataseArrest[™] cocktails consist of a broad spectrum of phosphatase inhibitors that are developed to target specific phosphatase categories. They are ideal for inhibition in tissue extractions and cell lysis experiments and are compatible with most common protein assays.

PhosphataseArrest[™] I

- Consists of 5 phosphatase inhibitors that target all phosphatase categories including serine/threonine specific, tyrosine specific and dual specificity phosphatases
- Not suitable for direct IEF/2D studies due to high salt concentrations

PhosphataseArrest[™] II

- Consists of 5 phosphatase inhibitors that target acid, alkaline and tyrosine phosphatases
- Not suitable for direct IEF/2D studies due to high salt concentrations

PhosphataseArrest[™] III

- Consists of 3 phosphatase inhibitors that target alkaline and serine/ threonine phosphatases
- · Compatible with IEF/2D studies

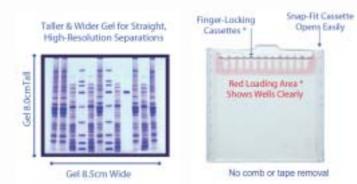
Product Number	Description	Pkg Size	Price
GB786450	PhosphataseArrest [™] I [100X]	1mL	\$171.90
GB786451	PhosphataseArrest [™] II [100X]	1mL	63.40
GB786452	PhosphataseArrest [™] III [100X]	1mL	63.40

TFOMI

PROTEIN GELS

EXPEDEON RunBlue[™] CASSETTE GELS

- Gels for SDS, DNA and Native-PAGE
- · High resolution separations
- Incredibly strong and elastic 10 cm x 10 cm cassettes with a long shelf life
- Red loading area shows wells clearly
- Snap-fit cassette opens easily
- Long well fingers prevent sample carry-over
- Compatible with Invitrogen X-cells, Owl Wolverine, Hoefer Tall Mighty Small and Dual Run/Blot Cell



Product	0-1.0/	14/-11-	Maximum	Pkg	Delas
Number	Gel %	Wells	Sample Volume	Size	Price
Cassette Gels	for SDS I	PAGE			
XPNXG00812	8%	12	35 µL	Each	\$147.70
XPNXG00827	8%	17	17 µL	Each	147.70
XPNXG01012	10%	12	35 µL	Each	147.70
XPNXG01027	10%	17	17 μL	Each	147.70
XPNXG01212	12%	12	35 µL	Each	147.70
XPNXG01227	12%	17	17 µL	Each	147.70
XPNXG01612	16%	12	35 µL	Each	147.70
XPNXG01627	16%	17	17 µL	Each	147.70
XPNXG40812	4-8%	12	35 µL	Each	147.70
XPNXG40827	4-8%	17	17 µL	Each	147.70
XPNXG41212	4-12%	12	35 µL	Each	147.70
XPNXG41227	4-12%	17	17 µL	Each	147.70
XPNXG42012	4-20%	12	35 µL	Each	147.70
XPNXG42027	4-20%	17	17 µL	Each	147.70
XPNXG42002	4-20%	2D	300 µL	Each	147.70
XPNXG82012	10-20%	12	35 µL	Each	147.70
XPNXG82027	10-20%	17	17 µL	Each	147.70
Cassette Gels	for DNA a	and Nati	ve Protein PAGE		
XPNXN01012	10%	12	35 µL	Each	\$147.70
XPNXN01027	10%	17	17 µL	Each	147.70
XPNXN02012	20%	12	35 µL	Each	147.70
XPNXN02027	20%	17	17 μL	Each	147.70
XPNXN20812	2-8%	12	35 µL	Each	147.70
XPNXN20827	2-8%	17	17 µL	Each	147.70
XPNXN32012	3-20%	12	35 µL	Each	147.70
XPNXN32027	3-20%	17	17 μL	Each	147.70
			•		

Also available: 20% gels and 1- or 2D- well gels in all percentages on a special order basis.

EXPEDEON BUFFERS AND SOLUTIONS FOR SDS PAGE

Product Number	Description	Pkg Size	Price
XPNXB31010	LDS Sample Buffer (4X)	10 mL	\$23.40
XPNXA31010	LDS Sample Buffer (5X)	8 mL	23.40
XPNXB32001	DTT Reducer (10X)	1 mL	13.50
XPNXB50500	SDS Run Buffer (20X)	500 mL	81.30
XPNXB50525	SDS Run Buffer (20X)	5 L	643.90
XPNXB14500	SDS Run Buffer (Reducing 20X)	500 mL	81.30
XPNXB14525	SDS Run Buffer (Reducing 20X)	5 L	643.90

OTHER BUFFERS

Product Number	Description	Pkg Size	Price
XPNXB82500	TGS Run/Blot Stock Buffer	500 mL	\$43.10
XPNXB61500	DNA/Native Run Buffer (20X)	500 mL	81.30

BLOTTING MEMBRANES

Product Number	Description	Pkg Size	Price
XPNXA19020	Blot Sandwich NC 0.2 µm, 90 X 85mm	20	\$195.70
XPNXA29320	Blot Sandwich PVDF 0.2 μm, 90 X 85mm	20	257.30
XPNXE00017	Sponge Pod Kit, 9 x 9 cm	4	23.40

OTHER SOLUTIONS FOR COMPOSITE POLYMER GELS

Product Number	Description	Pkg Size	Price
XPNXA30001	Antioxidant (800X)	1 mL	\$18.50
XPNXA30010	Antioxidant (800X)	10 mL	35.70
XPNXA04510	Gel Drying Solution (1X)	1 L	43.10

Dual Run and Blot System

Electrophoresis and Western blotting in one instrument.



Product Number	Description	Price
XPNXE00002	Dual Run and Blot System	\$675.90

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GEL STAINS

G-BIOSCIENCES PROTEIN GEL STAIN

G-Biosciences has developed a wide selection of electrophoresis gel stains for visualizing proteins that vary in sensitivity, staining time and reversibility.



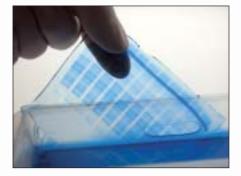
G-Biosciences Protein Gel Stain Selection Guide

Product	Sensitivity to BSA (ng)	Staining Time (min.)	Features and Applications
LabSafe GEL Blue™	4-8	3-60	 Improved Coomassie based stain No destaining required For native, denaturing, isoelectric focusing and 2D gels
FASTsilver™	0.5-1.0	60-90	 Produces a clear background for maximum visibility Does not use protein modifiers Stains proteins and nucleic acids For native, denaturing, isoelectric focusing and 2D gels
FOCUS FASTsilver [™]	0.5-1.0	60-90	 Allows optimal proteolytic digestion Allows maximum peptide extraction Mass spectrometry compatible For native, denaturing, isoelectric focusing and 2D gels
RAPIDstain [™]	4-8	5-60	 Improved Coomassie based stain No destaining required For native, denaturing, isoelectric focusing and 2D gels
Reversible Copper Stain [™]	0.1-0.5	5-10	 Reversible Compatible with subsequent application including elution and transfers Not compatible with native gels or gels containing tricine or glycine
Reversible Zinc Stain™	0.1-0.5	10-20	 Reversible High contrast protein bands Able to detect protein unable to be detected with silver stains Stains glycoproteins, phosphoproteins and other problematic proteins Compatible with subsequent application including elution and transfers For native and SDS denatured gels and gels containing glycine and tricine
Glycoprotein Staining Kit	0.5-1.0	180	 Combined dye and silver stain kit Improved glycoprotein detection For native, denaturing, isoelectric focusing and 2D gels

G-BIOSCIENCES LabSafe GEL Blue[™]

An ultra sensitive, fast, ready-to-use protein stain

- An enhanced protein stain that is based on Coomassie® dye
- Offers unsurpassed sensitivity and rapid band visualization
- Supplied in a ready-to-use format, which is added directly to protein gels following electrophoresis after a brief wash step

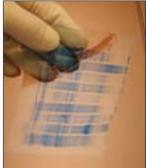


Product Number	Description	Pkg Size	Price
GB78635	LabSafe GEL Blue™	1 L	\$85.00
GB78635G	LabSafe GEL Blue™	1 Gallon	189.60

G-BIOSCIENCES RAPIDstain[™]

Get crystal clear backgrounds without de-staining

- An ultra sensitive (4-8 ng), ready-to-use protein stain based on Coomassie[®] dye
- No fixation step is needed simply pour RAPIDstain[™] on your gel, and bands develop within 5-10 minutes and reach a maximum visibility in
- 60 minutesMini-gels can be stained in 10 minutes
- Works with Native PAGE, SDS-PAGE, Iso-electric focusing or 2D Gels



Product Number	Description	Pkg Size	Price
GB78631	RAPIDstain [™]	1L	\$85.00
GB78631G	RAPIDstain [™]	1 Gallon	189.60

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G-BIOSCIENCES PN-Silver[™] D-Stain

Stain, de-stain and re-stain your protein or nucleic acid gels

- Reduces the staining of silver stained gels and reveals bands not discernible otherwise
- De-stain the gels completely and re-stain your gels or follow other downstream applications with your gels, such as Western transfer, sequencing etc.
- Suitable for both protein and nucleic acid gels

Product Number	Description	Pkg Size	Price
GB786199	PN-Silver [™] D-Stain Sufficient for 25 Mini-Gels	2 x 250 mL	\$158.90

G-BIOSCIENCES FOCUS[™] FastSilver[™]

Mass Spec compatible silver staining for enhanced performance

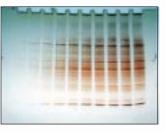
- Sub-nanogram sensitive silver staining kit which produces a crystal clear background, high visibility, and maximal peptide recovery needed for critical analysis by mass spectrometry
- · Does not use protein modifier glutaraldehyde
- Kit is provided with a silver-ion removing and de-staining reagent, SilverOUT[™], which allows complete trypsin digestion and extraction of peptides needed for mass spectrometry

Product Number	Description	Pkg Size	Price
GB786240	FOCUS [™] FastSilver [™] Sufficient for 25 Gels Includes: FOCUS [™] SilverStain, 125 mL FOCUS [™] Developer, 75 g Sensitizer-II, 4 mL Sensitizer-II, 4 mL SilverOUT [™] I, 4 mL SilverOUT [™] II, 4 mL	Kit	\$175.20

G-BIOSCIENCES FastSilver[™]

For staining proteins and nucleic acids

- Stains both proteins and nucleic acids with an exceptionally clear background
- Staining is 100 times more sensitive than Coomassie[®] Blue protein staining and 10 times more sensitive than ethidium bromide for DNA and RNA



 Does not contain glutaraldehyde which modifies protein molecules making protein bands unsuitable for protein digestion

Product Number	Description	Pkg Size	Price
GB78630	FastSilver [™] Sufficient for 25 Mini-Gels Includes: Silver Stain, 125 mL Developer, 75 g Sensitizer-I, 4 mL Sensitizer-II, 4 mL	Kit	\$154.00

G-BIOSCIENCES 5 Minute Reversible Copper Stain™

- Stains gels within 5 minutes
- Reversible, simple and fast stain
- · Allows subsequent elution, blotting, or other types of staining



Product Number	Description	Pkg Size	Price
GB78632CU	5 Minute Reversible Copper Stain [™] Sufficient for 25 Mini-Gels Includes: 5 Minute Reversible Copper Stain [™] De-Staining Solution CU (10X), 125		\$158.90

G-BIOSCIENCES Reversible Zinc Stain[™]

- Reversible, simple, fast, and sensitive
- · High contrast protein bands
- Works with native and SDS denatured gels and gels containing Glycine and Tricine
- Excellent for subsequent protein elution, blotting, sequencing, mass spectroscopy, etc.



Product Number	Description	Pkg Size	Price
GB78632ZN	Reversible Zinc Stain [™] Sufficient for 25 Mini-Gels Includes: Zinc-Reagent-I, 125 mL Reversible Zinc Stain [™] (10X), De-Staining Solution Zn (10X)		\$158.90

G-BIOSCIENCES Glyco-Stain[™]

For staining glycoproteins after electrophoresis

- · Detects proteoglycans and glycoproteins
- Stains both glycosylated and non-glycosylated proteins
- Sensitivity at nano-gram level (~1ng/band)

Product Number	Description	Pkg Size	Price
GB786254	Glyco-Stain™ Sufficient for 25 Mini-Gels Includes: Glyco-Fixing Solution, 250 mL Glyco-Oxidizing Reagent, 14 g Glyco-Reducing Reagent, 7 g Glyco-Reducing Reagent, 7 g Glyco-Positive Control (HRP), 2.5 Glyco-Negative Control (Soybean FastSilver™, 1 Kit		\$245.10 or), 2.5 µg

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Now Available from MJS BioLynx Inc.

^{MJS} BioLynx Inc. is pleased to announce that we are now a Canadian distributor for the complete line of Enzo[®] Life Sciences products. Enzo[®] Life Sciences, Inc. is a source for a broad range of cutting-edge research reagents. Their offering includes Enzo[®], ALEXIS[®] Biochemicals and BIOMOL[®] brand products, as well as the Assay Designs[®] and Stressgen[®] lines.

Enzo® Life Sciences has an extensive portfolio of technologies dedicated to "Enabling Discovery in Life Science"*":

- Genomic Analysis Gene expression tools, CGH analysis, nucleic acid labeling and cytogenetic probes[®]
- · Cellular Analysis Cell cycles & cell death, cellular stress, fluorescent probes, antibodies and biomarkers
- · Post Translational Modification Acetylation, methylation, phosphorylation, ubiquitinylation and SUMOylation
- Signal Transduction Receptor antagonists, antagonists & antibodies, second messengers, kinase cascades & proteolysis
- · Cancer & Immunology Tumor markers, natural products & antibiotics, innate immunity, biomarkers, detection sets, ELISA kits
- Drug Discovery 1° and 2° screening assays, compound libraries, enzymes, substrates & small molecules

Enzo® Life Sciences — Brand Overview

Enzo[®]

Labeling probes and dyes for target identification/validation and high content analysis via - gene expression analysis, nucleic acid detection, protein biochemistry and detection, molecular biology and cellular analysis

Assay Designs®

Over 200 assays for biomarkers relevant to inflammation and immunity, oxidative and cellular stress, steroid and hormone biology, cell signaling and metabolism

Stressgen[®]

Stressgen® brand antibodies, proteins and kits for heat shock proteins, chaperones and mediators of cellular stress

Biomol®

Antibodies, reagents and systems for signal transduction, lipid signaling, post translational analysis, proteolysis, ubiquitin and proteosome research

Alexis®

Biochemicals and reagents for apoptosis, cell biology, cancer and immunology, cell adipogenesis and natural products research



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Abgent was built to complete the Genome Ominiscient Antibody Library (GOAL)

Abgent develops primary antibodies and provides first-in-class custom peptide synthesis and antibody development. Their antibodies are widely used for Autophagy, Apoptosis, Stem Cells, Phosphorylation, Cell Function and Gene Regulation research. Synthesis of difficult peptides; including long peptides, is a core competency. High-quality, rapid turnaround and personal support is guaranteed.

The purpose of "**GOAL**" is to provide one or more validated antibodies for every human protein. This antibody sensing library will accelerate research in the life sciences. Abgent's extensive portfolio of antibodies includes the following:

- 1000+ antibodies against the entire human kinome
- 150+ antibodies for autophagy
- 400+ antibodies for stem cell research
- 200+ phosphospecific antibodies to the MAP kinase and apoptosis pathways
- Comprehensive antibodies sets for methylation, acetylation, sumoylation, ubiquitination pathways.

- Apoptosis
- Autophagy Pathway

Antibody Button

- Cell Function
- Neurosciences
- Nuclear Signaling
- Phosphospecific
- Protein Modification
- Stem Cell
- Tag Specific

Antibody Sampler Kits . . . Adding Value to Your Research with Sample Sizes

Sampler kits offer an affordable way to purchase multiple validated antibodies from Abgent's comprehensive antibody product lines. Assemble a collection of antibodies to your pathway of interest, or economically screen for the antibody that is perfect for your application.

Three Easy Steps To Get Your Antibody Sampler Kit...

- 1. Choose your antibodies from the qualified antibodies for each sampler kit. Minimum of 5 antibodies per order.
- 2. Call 1-888-593-5969 to place your order.
- Supply the catalogue numbers of the sampler kit and the individual antibodies.

Try It Today!

Sampler Kits:

AS1000a Apoptosis Sampler Kit AS1001a Autophagy Sampler Kit AS1002a Acetylation Sampler Kit AS1003a Methylation Sampler Kit AS1004a Neurosciences Sampler Kit AS1005a Phosphospecific Sampler Kit AS1006a Stem Cell Sampler Kit AS1007a Sumoylation Sampler Kit AS1008a Ubiquitination Sampler Kit

Abgent offers special trial pricing on select antibodies in a wide range of research areas! With over 3500 antibodies in their portfolio, and hundreds being released monthly, Abgent wants to reward customers who purchase ELISA-positive antibodies with savings OFF the list price. Purchase eligible antibodies on this page and take advantage of this special offer. These products are in second-generation characterization for additional applications, and are made available for a limited time at a discounted price until additional application data is collected.

Visit www.biolynx.ca or email tech@biolynx.ca for a complete listing of available Abgent antibodies.



Protein Modification Antibodies

Abgent has the most expansive collection of protein modification antibodies. Their selection includes over 2100 antibodies, covering a wide range of research areas.

•	Sumoylation	• Ph
•	Ubiauitination	• Me

- Phosphorylation Methylation
- Acetylation

• Glycosylation

Protein modification incorporates the diverse and dynamic modifications of proteins crucial to cell physiology and disease. Approximately 5-10% of the genome is estimated code for enzymes that catalyze protein modification. More than two hundred different protein modifications are known to occur in living cells, and their cellular purposes are under active study by researchers around the world.

Cell Function Antibodies

Abgent has a broad collection of unique antibodies that target a wide variety of cell function proteins. With over 2500 products against targets in the research areas listed below, Abgent is your one stop center for a vast selection of antibodies.

• Cell Cycle Regulation	• Cell Membrane	• Cell Structure
• Cancer	• Cell Signaling	• Metabolism

Cell function incorporates a wide array of cellular components, mechanisms, and processes vital for cell growth, maturity, replication, and death. Abgent has categorized its antibody selection in this area into the categories listed above. These categories cover numerous areas of research, and are linked and associated with many disorders and disease.

Autophagy Pathway Antibodies

Autophagy is a catabolic trafficking pathway for bulk destruction/ turnover of long-lived proteins and organelles via regulated lysosomal degradaton. This process has recently been shown to be important in cancer, neurodegenerative diseases, and cardiovascular diseases. The process consists of sequential signaling, sequestration of cytoplasm, formation of a unique double membrane vesicle (autophagosome), targeting of the completed vesicle to the lysosome/vacuole followed by docking and fusion, and breakdown.

Abgent has the most extensive collection of autophagy antibodies. From the hallmark autophagy antibody APG8 (MAPLC3) to the newest autophagy antibodies such as LAMP and APG1, count on Abgent to find the most relevant, qualified antibodies for autophagy research. **Their Epishot™ Antigen Prediction Screen** enables them to design optimal peptides for these autophagy targets. This expanding collection includes over 70 antibodies targeting autophagic proteins.

For any questions on the Abgent products, please contact our Technical Support Team at tech@biolynx.ca or 1-888-593-5969



The Global Source for Antibodies and Antigens

Meridian Life Science, Inc. is an industry leader in the supply of monoclonal and polyclonal antibodies, purified antigens, assay development reagents, and custom antibody services to pharmaceutical, biotechnology and diagnostic companies, and life science researchers.

Each year they introduce many novel products as a result of the combined efforts of their research and development teams, their technology transfer programs and their customers.

Product Offering:

- Animal Sera
- Antigens
- Apoptosis & Signal Transduction
- · Assay Detection & Misc. Reagents
- Autoimmune Reagents
- Bone & Calcium Metabolism
- Cancer Research
- Cardiac Markers
- CD Markers
- Collagen & Extracellular Matrix
- Cytokines & Growth Factors
- Cytoskeletal Filaments & Interstitial Proteins
- Drug Antibodies
- Enzymes

TRU BLOCK[™] HAMA BLOCKER

The Most Powerful HAMA Blocker Against Immunoassay Interference

Meridian Life Science, Inc. is pleased to introduce TRU Block[™], the most potent active blocking reagent on the market today. TRU Block[™] actively blocks the heterophilic antibody (HA) interference in immunoassays including but not limited to Human Anti-Mouse Antibody (HAMA) interference.

- · High Potency Blocking Reduces the amount of blocker usage by 5-20-fold when compared to mouse IgG
- Large Lot Capability Reduces the cost of testing multiple lots
- Lot-to-lot consistency Reduces the need for adjusting assay reagents to optimize performance. Each lot of TRU Block[™] is tested in an ELISA assay against a control.
- Extensive QC Ensures a well-characterized product. Testing includes a HAMA blocking functional assay, purity and bioburden testing.
- > 95% purity Reduces levels of contaminating ingredients for consistent performance

1-888-593-5969

Product Number	Description	Pkg Size	Price
BDA66800H	TRU Block [™]	100 mg	\$276.50

- Flow Cytometry Isotypic Controls & Blood Lysing Kit
- Hormones & Steroids
- Immunoglobulins, Animal
- Immunoglobulins, Human
- Infectious Diseases & Toxins
- Lipoproteins
- Major Histocompatibility Antibodies
- Neuroscience Reagents
- Platelets & Hemostasis Reagents
- Proteins & Bioactive Peptides
- Rubella Monoclonal Antibodies
- T-Cell Receptors
- Veterinary Products





StressMarq Biosciences Inc.



ABOUT STRESSMARQ

StressMarq is a company based in beautiful Victoria, British Columbia, Canada; and encompasses what is probably the most experienced combined commercial and scientific heat shock and cellular stress community worldwide. Drawing on two decades of experience in this sector, StressMarq embodies the following key elements which are aimed at providing the best possible research tools: scientific excellence, multiple product types (antibodies, proteins and kits for research purposes), and bridge products where the core competency of this company overlaps into cell signaling and other areas.

Antibody Button

Apoptosis • Cell Signaling • Chaperones • Heat Shock • Ion Channels • Neurobiology • Neuroscience • Organelle Markers • Oxidative Stress • Phosphorylation • Trafficking

TRIAL PROGRAM

StressMarq Biosciences Inc. invites you to evaluate their antibodies!

The performance of each StressMarq antibody has been documented and is supported with online data sheets. However, as a new company, they cannot test each antibody in all applications or species. If their datasheets do not indicate whether the antibody is suitable for your application or species, we invite you to use the Trial Program*!

We only require you pay for shipping!

Antibodies eligible for this promotion are as follows:

Hsp70 Antibody	Hsp70/Hsc70 Antibody	Hsp90 Antibody	Hsp90alpha Antibody
Clone C92	Clone N27	Clone H9010	Clone K41009
Product Number SMSMC100	Product Number SMSMC104	Product Number SMSMC107	Product Number SMSMC108
Hsp90 Complex Isolation Antibody	PSD95 Antibody	PSD95 Antibody	CamKII Antibody
Clone 8D3	Clone 6G6	Clone 7E3	Clone 6G9
Product Number SMSMC109	Product Number SMSMC122	Product Number SMSMC123	Product Number SMSMC124
CamKII Antibody	Hsp90alpha Antibody	LAMP1 Antibody	P38 MAPK Antibody
Clone 22B1	Clone D7alpha	Clone Ly1C6	Clone 9F12
Product Number SMSMC125	Product Number SMSMC137	Product Number SMSMC140	Product Number SMSMC152
Nitrotyrosine Antibody	DNA Damage Antibody	* Limit of 3 antibodie	
Clone 39B6	Clone 15A3	Please contact us at 1-888-5	
Product Number SMSMC154	Product Number SMSMC155	for more information.	

www.stressmarq.com

^{MJS} BioLynx Inc. ... together ... StressMarq

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CYTOKINES AND GROWTH FACTORS

Cytokines and chemokines are small proteins secreted by a variety of cell types. They are important signal messengers mediating cell communication and activating other target cells through binding to specific receptors. Cytokines play a central role in the immune system - in which the chemokines mainly function as chemoattractants. They also coordinate and regulate other biological processes such as cell growth and development or tissue repair.

PromoKine's recombinant cytokines, chemokines, growth factors, soluble receptors and CD antigens have been produced in E. coli, yeast, insect or mammalian cells. They are highly purified and biologically active.

Promo Kine



HUMAN RECOMBINANT

Product	Product		Pkg	
Number	Name	Description	Size	Price
PROC66551	4-1BB sReceptor (CD137), human, recombinant	Recombinant Human 4-1BB soluble Receptor (CD137)	20 µg	\$199.00
PROC66550	4-1BBL (CD137L), human, recombinant	Recombinant Human 4-1BB Ligand (CD137L)	20 µg	249.00
PROC66625	Acrp30 (His), human, recombinant	Recombinant Human Adiponectin (Adipocyte Complement Related Protein of 30 kDa; E. coli-derived, His-tagged)"	50 µg	199.00
PROC66626	Acrp30, human, recombinant (E. coli)	Recombinant Human Adiponectin (Adipocyte Complement Related Protein of 30 kDa; E. coli-derived)	25 µg	199.00
PROC66628	Acrp30, human, recombinant (HEK)	Recombinant Human Adiponectin (Adipocyte Complement Related Protein of 30 kDa; HEK cell-derived)	10 µg	199.00
PROC66629	Acrp30, human, recombinant (Sf9)	Recombinant Human Adiponectin (Adipocyte Complement Related Protein of 30 kDa; Sf9 insect cell-derived)	25 µg	249.00
PROC60060	Activin A, human, recombinant	Recombinant Human Activin A	5 µg	249.00
PROC60062	Activin B, human, recombinant	Recombinant Human Activin B	5 µg	249.00
PROC63735	AITRL, human, recombinant	Recombinant Human Activation Induced TNFR Member Ligand	20 µg	199.00
PROC60015	Ang-1, human, recombinant (Sf9)	Recombinant Human Angiopoietin 1 (Sf9 insect cell-derived)	10 µg	199.00
PROC60020	Ang-2, human, recombinant (Sf9)	Recombinant Human Angiopoietin 2 (Sf9 insect cell-derived)	10 µg	199.00
PROC60090	Angiostatin K1-3, human, recombinant	Recombinant Human Angiostatin Kringles 1-3	100 µg	199.00
PROC60095	Angiostatin K1-4, human	Human Angiostatin Kringles 1-4	10 µg	199.00
PROC60070	ANGPTL-3, human, recombinant	Recombinant Human Angiopoietin-like Protein 3	10 µg	199.00
PROC60072	ANGPTL-4, human, recombinant	Recombinant Human Angiopoietin-like Protein 4	10 µg	199.00
PROC60016	APO-A1, human, recombinant	Recombinant Human Apolipoprotein A1	100 µg	249.00
PROC60017	APO-E2, human, recombinant	Recombinant Human Apolipoprotein E2	500 µg	199.00
PROC60018	APO-E3, human, recombinant	Recombinant Human Apolipoprotein E3	500 µg	199.00
PROC60019	APO-E4, human, recombinant	Recombinant Human Apolipoprotein E4	500 µg	199.00
PROC68302	Apo-SAA, human, recombinant	Recombinant Human Apolipoprotein Serum Amyloid A	50 µg	199.00
PROC60030	Artemin, human, recombinant	Recombinant Human Artemin	10 µg	199.00
PROC63755	BAFF, human, recombinant	Recombinant Human B-cell Activating Factor (BLyS) belonging to the TNF Family	20 µg	199.00
PROC63758	BAFF-R, human, recombinant	Recombinant Human B-cell Activating Factor (BLyS) Receptor belonging to the TNF Family	10 µg	199.00
PROC65240	BCA-1 (BLC, CXCL13), human, recombinant	Recombinant Human B-cell Attracting Chemokine 1 (BLC, CXCL13)	20 µg	249.00
PROC66570	BCMA, human, recombinant	Recombinant Human B-cell Maturation Protein	20 µg	249.00
PROC65251	BD-1 (36 aa), human, recombinant	Recombinant Human beta-Defensin 1 (36 aa variant)	20 µg	249.00
PROC65254	BD-1 (47 aa), human, recombinant	Recombinant Human beta-Defensin 1 (47 aa variant)	20 µg	199.00
PROC65250	BD-2, human, recombinant	Recombinant Human beta-Defensin 2	20 µg	199.00
PROC65258	BD-3, human, recombinant	Recombinant Human beta-Defensin 3	20 µg	249.00
PROC65260	BD-4, human, recombinant	Recombinant Human beta-Defensin 4	20 µg	199.00
PROC66212	BDNF, human, recombinant	Recombinant Human Brain Derived Neurotrophic Factor	10 µg	199.00
PROC66130	beta-NGF, human, recombinant (CHO)	Recombinant Human Nerve Growth Factor beta (CHO cell-derived)	20 µg	199.00
PROC67340	BMP-13 (CDMP-2), human, recombinant	Recombinant Human Bone Morphogenetic Protein 13 (CDMP-2)	50 µg	199.00
PROC67344	BMP-14 (CDMP-1), human, recombinant	Recombinant Human Bone Morphogenetic Protein 14 (CDMP-1)	50 µg	199.00
PROC67310	BMP-2, human, recombinant	Recombinant Human Bone Morphogenetic Protein 2	10 µg	199.00
PROC67314	BMP-4, human, recombinant	Recombinant Human Bone Morphogenetic Protein 4	10 µg	199.00
PROC67316	BMP-6, human, recombinant	Recombinant Human Bone Morphogenetic Protein 6	10 µg	199.00
PROC67318	BMP-7, human, recombinant	Recombinant Human Bone Morphogenetic Protein 7	10 µg	199.00
PROC60065	BNP, human, recombinant	Recombinant Human B-type Natriuretic Protein	10 µg	199.00
PROC66580	BRAK (CXCL14), human, recombinant	Recombinant Human Human Breast and Kidney Chemokine (CXCL14)	20 µg	249.00
PROC60510	BTC, human, recombinant	Recombinant Human Betacellulin	20 µg	199.00
PROC67410	Cardiotrophin-1 (CT-1), human, recombinant	Recombinant Human Cardiotrophin-1 (CT-1)	10 µg	199.00
PROC60058	sCD105 (Endoglin), human, recombinant (Sf9)	Recombinant Human soluble CD105 (Endoglin; Sf9 insect cell-derived)	25 µg	399.00
PROC63318	CD11b, human, recombinant	Recombinant Human CD11b	2 µg	249.00
PROC63324	CD14, human, recombinant (CHO)	Recombinant Human CD14 (CHO cell-derived)	2 µg	249.00

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HUMAN RECOMBINANT (Cont'd)

Product Number	Product Name	Description	Pkg Size	Price
PROC63369	CD146, human, recombinant	Recombinant Human CD146	2 µg	\$249.00
PROC63372	CD147, human, recombinant	Recombinant Human CD147	2 µg	249.00
PROC63396 PROC63300	CD152 (CTLA-4), human, recombinant CD1A, human, recombinant	Recombinant Human CD152 (Cytotoxic T-lymphocyte-Associated Antigen 4) Recombinant Human CD1A	50 µg	199.00 249.00
PROC63303	CD2, human, recombinant	Recombinant Human CD1A Recombinant Human CD2	2 μg 2 μg	249.00
PROC63095	CD22, human, recombinant (CHO)	Recombinant Human CD22 (CHO cell-derived)	20 µg	249.00
PROC63330	CD23, human, recombinant	Recombinant Human CD23	2 µg	249.00
PROC63336	CD29, human, recombinant	Recombinant Human CD29	2 µg	249.00
PROC63339 PROC63342	CD31, human, recombinant CD34, human, recombinant	Recombinant Human CD31 Recombinant Human CD34	2 μg 2 μg	249.00 249.00
PROC60056	sCD4, human, recombinant	Recombinant Human soluble CD4	2 μg 10 μg	199.00
PROC63100	sCD40 Ligand (CD154), human, recombinant	Recombinant Human soluble CD40 Ligand (TRAP, CD154)	50 µg	199.00
PROC63348	CD43, human, recombinant	Recombinant Human CD43	2 µg	249.00
PROC63351	CD45, human, recombinant	Recombinant Human CD45	2 µg	249.00
PROC63354 PROC63357	CD52, human, recombinant CD56, human, recombinant	Recombinant Human CD52 Recombinant Human CD56	2 μg 2 μg	249.00 249.00
PROC63360	CD68, human, recombinant	Recombinant Human CD68	2 µg	249.00
PROC63363	CD72, human, recombinant	Recombinant Human CD72	2 µg	249.00
PROC63312	CD9, human, recombinant	Recombinant Human CD9	2 µg	249.00
PROC63366	CD99, human, recombinant	Recombinant Human CD99	2 µg	249.00
PROC66210 PROC66200	CNTF, human, recombinant CRP, human, recombinant	Recombinant Human Ciliary Neurotrophic Factor Recombinant Human C-Reactive Protein	20 µg 1 mg	199.00 349.00
PROC66590	CTACK (CCL27), human, recombinant	Recombinant Human Cutaneous T-cell Attracting Chemokine (CCL27)	20 µg	249.00
PROC68016	CTGF (182-250 aa, His), human, recombinant	Recombinant Human Connective Tissue Growth Factor (182-250 aa variant; His-tagged)	20 µg	199.00
PROC68015	CTGF (His), human, recombinant	Recombinant Human Connective Tissue Growth Factor (His-tagged)	10 µg	199.00
PROC68014	CTGF, human, recombinant	Recombinant Human Connective Tissue Growth Factor (98 aa variant)	20 µg	199.00
PROC68018 PROC66610	CTGFL (WISP-2), human, recombinant CXCL16, human, recombinant	Recombinant Human Connective Tissue Growth Factor Like Protein (WISP-2) Recombinant Human CXC Ligand 16	20 µg	249.00 249.00
PROC63398	CYR61, human, recombinant	Recombinant Human Cysteine-rich Angiogenic Inducer 61	25 μg 20 μg	249.00
PROC68320	DKK-1, human, recombinant	Recombinant Human Dickkopf-Related Protein-1	10 µg	249.00
PROC68040	sDLL-4, human, recombinant	Recombinant Human soluble Delta-like Protein 4	25 µg	249.00
PROC67345	sBMPR-1A, human, recombinant (Sf9)	Recombinant Human soluble Bone Morphogenetic Protein Receptor 1A (Sf9 insect cell-derived)	100 µg	399.00
PROC69217	E-selectin, human, recombinant	Recombinant Human E-selectin	10 µg	199.00
PROC64413 PROC60170	EG-VEGF, human, recombinant EGF, human, recombinant (E. coli)	Recombinant Human Vascular Endothelial Cell Growth Factor-EG Recombinant Human Epidermal Growth Factor (E. coli-derived)	20 μg 500 μg	199.00 199.00
PROC60182	EGF, human, recombinant (Pichia)	Recombinant Human Epidermal Growth Factor (Pichia-derived)	500 µg	199.00
PROC65390	EMAP-II, human, recombinant	Recombinant Human Endothelial/Monocyte Activating Polypeptide II	20 µg	199.00
PROC65230	ENA-78, human, recombinant	Recombinant Human Epithelial Neutrophil Activating Peptide-78	20 µg	199.00
PROC68305	Endostatin, human, recombinant	Recombinant Human Endostatin	100 µg	199.00
PROC65321 PROC65330	Eotaxin (CCL11), human, recombinant Eotaxin-2 (CCL24), human, recombinant	Recombinant Human Eotaxin (CCL11) Recombinant Human Eotaxin 2 (CCL24)	20 μg 20 μg	199.00 249.00
PROC65340	Eotaxin-3 (CCL26), human, recombinant	Recombinant Human Eotaxin 3 (CCL26)	20 µg	249.00
PROC68380	Epigen, human, recombinant	Recombinant Human Epigen	25 µg	249.00
PROC68382	Epiregulin, human, recombinant	Recombinant Human Epiregulin	25 µg	249.00
PROC60022	EPO-alpha, human, recombinant	Recombinant Human Erythropoietin alpha	50 µg	199.00
PROC60025 PROC66512	EPO-beta, human, recombinant Exodus-2, human, recombinant	Recombinant Human Erythropoietin beta Recombinant Human Exodus 2	500 IU	199.00 199.00
PROC60340	FGF-1 (FGF-a), human, recombinant (E. coli)	Recombinant Human acidic Fibroblast Growth Factor (FGF-1; E. coli-derived)	20 μg 50 μg	199.00
PROC60343	FGF-1 (FGF-a), human, recombinant (Sf9)	Recombinant Human acidic Fibroblast Growth Factor (FGF-1; Sf9 insect cell-derived)	10 µg	199.00
PROC60415	FGF-10, human, recombinant	Recombinant Human Fibroblast Growth Factor 10	25 µg	249.00
PROC60460	FGF-16, human, recombinant	Recombinant Human Fibroblast Growth Factor 16	25 µg	249.00
PROC60470 PROC60480	FGF-17, human, recombinant FGF-18, human, recombinant	Recombinant Human Fibroblast Growth Factor 17 Recombinant Human Fibroblast Growth Factor 18	25 µg	249.00 249.00
PROC60480 PROC60490	FGF-19, human, recombinant	Recombinant Human Fibroblast Growth Factor 19	25 μg 25 μg	249.00
PROC60240	FGF-2 (FGF-b), human, recombinant	Recombinant Human basic Fibroblast Growth Factor (FGF-2)	50 μg	199.00
PROC60243	FGF-2 (FGF-b, 147 aa), human, recombinant	Recombinant Human basic Fibroblast Growth Factor (FGF-2, 147 aa variant)	50 µg	199.00
PROC60492	FGF-20, human, recombinant	Recombinant Human Fibroblast Growth Factor 20	15 µg	249.00
PROC60494	FGF-21, human, recombinant	Recombinant Human Fibroblast Growth Factor 21 Recombinant Human Fibroblast Growth Factor 22	20 µg	199.00
PROC60498 PROC60345	FGF-22, human, recombinant FGF-4, human, recombinant	Recombinant Human Fibroblast Growth Factor 22 Recombinant Human Fibroblast Growth Factor 4	10 µg 25 µg	199.00 249.00
PROC60350	FGF-5, human, recombinant	Recombinant Human Fibroblast Growth Factor 5	50 μg	249.00
PROC60360	FGF-6, human, recombinant	Recombinant Human Fibroblast Growth Factor 6	25 µg	249.00
PROC60380	FGF-8, human, recombinant	Recombinant Human Fibroblast Growth Factor 8	25 µg	249.00
PROC60390 PROC67110	FGF-9, human, recombinant (Sf9) flt-3 Ligand, human, recombinant (E. coli)	Recombinant Human Fibroblast Growth Factor 9 (Sf9 insect cell-derived) Recombinant Human flt3 Ligand (E. coli-derived)	20 μg 10 μg	199.00 199.00
PROC67113	flt-3 Ligand, human, recombinant (E. coll)	Recombinant Human fits Ligand (E. coll-derived) Recombinant Human fits Ligand (Sf9 insect cell-derived)	10 μg	199.00
PROC67510	Fractalkine (CX3CL1), human, recombinant	Recombinant Human Fractalkine (CX3CL1)	20 µg	199.00
PROC60040	FST, human, recombinant	Recombinant Human Follistatin	20 µg	199.00
PROC60437	G-CSF, human, recombinant (CHO)	Recombinant Human Granulocyte Colony Stimulating Factor (CHO cell-derived)	10 µg	199.00
PROC60434 PROC66630	G-CSF, human, recombinant (E. coli) gAcrp30 (Adipolean), human, recombinant	Recombinant Human Granulocyte Colony Stimulating Factor (E. coli-derived) Recombinant Human globular Acrp30 (Adipolean)	10 μg 25 μg	199.00 199.00
PROC66630 PROC67953	Galectin-1, human, recombinant	Recombinant Human Globular Actpole (Adipolean) Recombinant Human Galectin 1	25 μg 50 μg	199.00
PROC67958	Galectin-3, human, recombinant	Recombinant Human Galectin 3	50 μg	199.00
PROC67610	GCP-2 (CXCL6), human, recombinant	Recombinant Human Human Granulocyte Chemotactic Peptide 2 (CXCL6)	20 µg	249.00
PROC67328	GDF-11, human, recombinant	Recombinant Human Growth & Differentiation Factor 11	20 µg	249.00
PROC67329	GDF-15 (MIC-1), human, recombinant	Recombinant Human Growth & Differentiation Factor 15 (MIC-1)	20 µg	249.00
PROC67323 PROC67330	GDF-3, human, recombinant GDF-5, human, recombinant	Recombinant Human Growth & Differentiation Factor 3 Recombinant Human Growth & Differentiation Factor 5	20 μg 10 μg	249.00 199.00
PROC67333	GDF-8, human, recombinant	Recombinant Human Growth & Differentiation Factor 8 (Myostatin Propeptide)	25 μg	199.00
PROC66312	GDNF, human, recombinant	Recombinant Human Glial Derived Neurotropic Factor	10 µg	199.00
	Old Oble alt human an analysis and	Recombinant Human Pituitary Growth Hormone 20K	100 µg	349.00
PROC67336	GH-20K-pit, human, recombinant			
PROC67336 PROC67337 PROC67339	GH-20K-pit, numan, recombinant GH-20K-pl, human, recombinant GH-22K-pl, human, recombinant	Recombinant Human Placental Growth Hormone 20K Recombinant Human Placental Growth Hormone 22K	100 μg 100 μg	349.00 349.00

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HUMAN RECOMBINANT (Cont'd)

Product	Product		Pkg	
Number	Name	Description	Size	Price
PROC67338 PROC60420	GHBP, human, recombinant GM-CSF, human, recombinant (E. coli)	Recombinant Human Growth Hormone Binding Protein Recombinant Human Granulocyte/Macrophage Colony Stimulating Factor (E. coli-derived)	100 µg 10 µg	\$349.00 199.00
PROC60426	GM-CSF, human, recombinant (Sf9)	Recombinant Human Granulocyte/Macrophage Colony Stimulating Factor (Sf9 insect cell-derived)	20 µg	399.00
PROC60428 PROC60432	GM-CSF/IL-3 FP, human, recombinant (Sf9) GMF-beta, human, recombinant	Recombinant Human Granulocyte/Macrophage Colony Stimulating Factor/IL-3 Fusion Protein (Sf9 insect cell-derived) Recombinant Human Glia Maturation Factor beta	10 μg 10 μg	199.00 249.00
PROC65430	GRO-alpha (MGSA, CXCL1), human, recombinant	Recombinant Human Growth Regulated Oncogene alpha (Melanoma Growth Stimulating Activity, CXCL1)	10 μg 25 μg	199.00
PROC65440	GRO-beta (MIP-2, CXCL2), human, recombinant	Recombinant Human Growth Regulated Oncogene beta (CXCL2)	10 µg	199.00
PROC65450 PROC67335	GRO-gamma (CXCL3), human, recombinant Growth Hormone (GH), human, recombinant	Recombinant Human Growth Regulated Oncogene gamma (CXCL3) Recombinant Human Growth Hormone (GH)	10 µg 100 µg	199.00 199.00
PROC67712	HCC-1 (66 aa, CCL14), human, recombinant	Recombinant Human Hemofiltrate CC-Chemokine 1 (66 aa variant, CCL14)	100 μg 10 μg	249.00
PROC67710	HCC-1 (72 aa, CCL14), human, recombinant	Recombinant Human Hemofiltrate CC-Chemokine 1 (72 aa variant, CCL14)	10 µg	249.00
PROC64530 PROC68115	HGF, human, recombinant HVEM/Fc, human, recombinant	Recombinant Human Hepatocyte Growth Factor Recombinant Human Herpes Virus Entry Mediator (Fc Chimera)	10 µg 100 µg	199.00 249.00
PROC60185	sEGF-R, human, recombinant	Recombinant Human soluble Epidermal Growth Factor Receptor	25 µg	499.00
PROC66620	sFas Ligand, human, recombinant	Recombinant Human soluble Fas Ligand	10 µg	249.00
PROC66623 PROC60450	sFas Receptor (CD95), human, recombinant sFGFR-1/Fc, human, recombinant (Sf9)	Recombinant Human soluble Fas Receptor (CD95, TNFRSF6) Recombinant Human soluble Fibroblast Growth Factor Receptor 1a (IIIc) / Fc-Chimera (Sf9 insect cell-derived)	20 μg 10 μg	249.00 199.00
PROC60451	sFGFR-2/Fc, human, recombinant (Sf9)	Recombinant Human soluble Fibroblast Growth Factor Receptor 2a (IIIc) / Fc-Chimera (Sf9 insect cell-derived)	10 µg	199.00
PROC60452	sFGFR-3/Fc, human, recombinant (Sf9)	Recombinant Human soluble Fibroblast Growth Factor Receptor 3a (IIIc) / Fc-Chimera (Sf9 insect cell-derived)	10 µg	199.00
PROC60453 PROC65270	sFGFR-4/Fc, human, recombinant (Sf9) sFRP-1, human, recombinant	Recombinant Human soluble Fibroblast Growth Factor Receptor 4 (IIIc) / Fc-Chimera (Sf9 insect cell-derived) Recombinant Human Secreted Frizzled Related Protein 1	10 μg 20 μg	199.00 249.00
PROC65270 PROC67810	I-309 (CCL1), human, recombinant	Recombinant Human I-309 (CCL1)	20 µg 10 µg	199.00
PROC67820	I-TAC (CXCL11), human, recombinant	Recombinant Human Interferon-inducible T-cell alpha Chemoattractant (CXCL11)	20 µg	199.00
PROC60579	IFN-alpha 1b, human, recombinant (E. coli)	Recombinant Human Interferon alpha-1b (E. coli-derived) Recombinant Human Interferon alpha-2a (E. coli-derived)	100 µg	199.00
PROC60580 PROC60581	IFN-alpha 2a, human, recombinant (E. coli) IFN-alpha 2b, human, recombinant (E. coli)	Recombinant Human Interferon alpha-2b (E. coli-derived) Recombinant Human Interferon alpha-2b (E. coli-derived)	100 μg 100 μg	199.00 199.00
PROC60582	IFN-alpha 2b, human, recombinant (Yeast)	Recombinant Human Interferon alpha-2b (yeast-derived, glycosylated)	50 µg	199.00
PROC60591	IFN-beta 1a, human, recombinant (CHO)	Recombinant Human Interferon beta-1a (CHO cell-derived)	10 µg	199.00
PROC60590 PROC60724	IFN-beta 1b, human, recombinant (E. coli) IFN-gamma, human, recombinant	Recombinant Human Interferon beta-1b (E. coli-derived) Recombinant Human Interferon gamma	10 µg 100 µg	199.00 199.00
PROC60730	IFN-lambda-1 (IL-29), human, recombinant	Recombinant Human Interferon lambda-1 (IL-29)	20 µg	249.00
PROC60732	IFN-lambda-2 (IL-28A), human, recombinant	Recombinant Human Interferon lambda-2 (IL-28A)	20 µg	249.00
PROC60842 PROC60845	IGF-BP1, human, recombinant IGF-BP2, human, recombinant	Recombinant Human Insulin Like Growth Factor Binding Protein 1 Recombinant Human Insulin Like Growth Factor Binding Protein 2	20 μg 20 μg	199.00 249.00
PROC60848	IGF-BP3, human, recombinant	Recombinant Human Insulin Like Growth Factor Binding Protein 3	25 µg	199.00
PROC60849	IGF-BP4, human, recombinant	Recombinant Human Insulin Like Growth Factor Binding Protein 4	20 µg	249.00
PROC60850 PROC60853	IGF-BP5, human, recombinant IGF-BP6, human, recombinant	Recombinant Human Insulin Like Growth Factor Binding Protein 5 Recombinant Human Insulin Like Growth Factor Binding Protein 6	25 μg 20 μg	199.00 199.00
PROC60855	IGF-BP7, human, recombinant	Recombinant Human Insulin Like Growth Factor Binding Protein 7	20 µg 25 µg	249.00
PROC60840	IGF-I, human, recombinant	Recombinant Human Insulin Like Growth Factor I	100 µg	199.00
PROC60960 PROC60841	IGF-II, human, recombinant IGF-IR, human, recombinant	Recombinant Human Insulin Like Growth Factor II Recombinant Human Insulin-Like Growth Factor I Receptor	50 μg 5 μg	199.00 399.00
PROC61112	IL-1 alpha, human, recombinant	Recombinant Human Interleukin 1-alpha	3 μg 10 μg	199.00
PROC61120	IL-1 beta, human, recombinant	Recombinant Human Interleukin 1-beta	10 µg	199.00
PROC61122 PROC62015	IL-1 RA, human, recombinant IL-10, human, recombinant (CHO)	Recombinant Human Interleukin 1 Receptor Antagonist Recombinant Human Interleukin 10 (CHO cell-derived)	10 μg 10 μg	199.00 199.00
PROC62013 PROC62012	IL-10, human, recombinant (CHO)	Recombinant Human Interleukin 10 (CHO cell-derived)	10 µg	199.00
PROC62120	IL-11, human, recombinant	Recombinant Human Interleukin 11	10 µg	199.00
PROC62212 PROC62215	IL-12, human, recombinant	Recombinant Human Interleukin 12 Recombinant Human Interleukin 12 p40 (CHO coll derived)	10 µg	199.00
PROC62215 PROC62218	IL-12-p40, human, recombinant (CHO) IL-12-p80, human, recombinant (CHO)	Recombinant Human Interleukin 12-p40 (CHO cell-derived) Recombinant Human Interleukin 12-p80 (CHO cell-derived)	10 μg 10 μg	249.00 249.00
PROC62314	IL-13 (variant), human, recombinant	Recombinant Human Interleukin 13 (Variant)	10 µg	249.00
PROC62312	IL-13, human, recombinant	Recombinant Human Interleukin 13 Recombinant Human Interleukin 15	10 µg	199.00
PROC62512 PROC62611	IL-15, human, recombinant IL-16 (121 aa), human, recombinant	Recombinant Human Interleukin 15 Recombinant Human Interleukin 16 (121 aa variant)	10 μg 10 μg	199.00 249.00
PROC62613	IL-16 (130 aa), human, recombinant	Recombinant Human Interleukin 16 (130 aa variant)	10 µg	249.00
PROC62710 PROC62712	IL-17, human, recombinant	Recombinant Human Interleukin 17A Recombinant Human Interleukin 17B	25 µg	199.00 249.00
PROC62712 PROC62714	IL-17B, human, recombinant IL-17D, human, recombinant	Recombinant Human Interleukin 17D	25 μg 25 μg	249.00
PROC62715	IL-17E, human, recombinant	Recombinant Human Interleukin 17E	25 µg	249.00
PROC62718 PROC62910	IL-17F, human, recombinant IL-19, human, recombinant	Recombinant Human Interleukin 17F Recombinant Human Interleukin 19	25 µg	249.00 199.00
PROC62910 PROC61240	IL-19, numan, recombinant IL-2, human, recombinant	Recombinant Human Interleukin 19 Recombinant Human Interleukin 2	10 μg 50 μg	199.00
PROC62920	IL-20, human, recombinant	Recombinant Human Interleukin 20	10 µg	199.00
PROC62921 PROC62922	IL-21, human, recombinant IL-22, human, recombinant	Recombinant Human Interleukin 21 Recombinant Human Interleukin 22	10 µg	199.00 199.00
PROC62922 PROC62928	IL-22, human, recombinant	Recombinant Human Interleukin 22 Recombinant Human Interleukin 24	10 μg 10 μg	199.00
PROC61301	IL-3 CC, human, recombinant	Recombinant Human Interleukin 3 (for Cell Culture)	~ 30 µg	199.00
PROC61320	IL-3, human, recombinant (E. coli)	Recombinant Human Interleukin 3 (E. coli-derived)	10 µg	199.00
PROC61330 PROC61325	IL-3, human, recombinant (E. coli) IL-3, human, recombinant (Sf9)	Recombinant Human Interleukin 3 (E. coli-derived) Recombinant Human Interleukin 3 (Sf9 insect cell-derived)	25 μg 10 μg	399.00 199.00
PROC62950	IL-31, human, recombinant	Recombinant Human Interleukin 31	10 µg	249.00
PROC62953	IL-32-alpha, human, recombinant IL-33, human, recombinant	Recombinant Human Interleukin 32 alpha	10 µg	249.00
PROC62958 PROC61401	IL-33, human, recombinant IL-4 CC, human, recombinant	Recombinant Human Interleukin 33 Recombinant Human Interleukin 4 for (for Cell Culture)	10 μg ~ 5 μg	199.00 199.00
PROC61450	IL-4, human, recombinant (CHO)	Recombinant Human Interleukin 4 (CHO cell-derived)	10 µg	199.00
PROC61420	IL-4, human, recombinant (E. coli)	Recombinant Human Interleukin 4 (E. coli-derived)	10 µg	199.00
PROC61520 PROC61601	IL-5, human, recombinant IL-6 CC, human, recombinant	Recombinant Human Interleukin 5 Recombinant Human Interleukin 6 (for Cell Culture)	10 µg ~ 10 µg	199.00 199.00
PROC61640	IL-6, human, recombinant (CHO)	Recombinant Human Interleukin 6 (CHO cell-derived)	~ 10 µg 10 µg	199.00
PROC61625	IL-6, human, recombinant (E. coli)	Recombinant Human Interleukin 6 (E. coli-derived)	20 µg	199.00
PROC61712 PROC61715	IL-7, human, recombinant (E. coli) IL-7, human, recombinant (Yeast)	Recombinant Human Interleukin 7 (E. coli-derived) Recombinant Human Interleukin 7 (yeast-derived)	10 μg 10 μg	199.00 199.00
PROC61831	IL-8 (CXCL8, 72 aa), human, recombinant	Recombinant Human Interleukin 7 (yeas/denved) Recombinant Human Interleukin 8 (CXCL8, 72 aa variant)	25 µg	199.00
PROC61830	IL-8 (CXCL8, 77 aa), human, recombinant	Recombinant Human Interleukin 8 (CXCL8, 77 aa variant)	20 µg	199.00
PROC61920	IL-9, human, recombinant	Recombinant Human Interleukin 9	10 µg	199.00

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HUMAN RECOMBINANT (Cont'd)

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BTCCUSSD Vol. CPC PC/L, furma, excerbant Peoritains runna freezincys Constrains frain (CCL) 91.0 91.00 BTCCUSSD LAS-ICCL(L) furma, excerbant Peoritains runna freezincys Faisar 92.0 <t< td=""><td>PROC60212</td><td>Insulin, human, recombinant</td><td>Recombinant Human Insulin</td><td>25 mg</td><td>\$199.00</td></t<>	PROC60212	Insulin, human, recombinant	Recombinant Human Insulin	25 mg	\$199.00
BECODEN KAF-2, human membrane international membrane intercepie flow P-cdtr 2 Fig. 1930. Fig. 1930. BECODEN L372, bits (CLSL), human membrane international membrane internatine internatine international membrane international membrane inter					
International Internat					
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BRC00202 Lapid: huma: pearline Recomment Huma: Lapid (acc. Start) Potent i Imit Imit<					
PROCESSIME LFA.3. Human, meanshared Recent heart Human : Lackoge Function Aktional PLANS State PROCESSIME LFA.3. Human, meanshared Recent heart Human / backet find find find find find find find find					
PHODESE UB/T, Fund, Recomband Recomband Human LCH* 15.00 18.00 PRODUCES Lab Acceptor (D154), Aman, Recomband Recomband Human Scales Hartschick 4 Scoreptor apins (D121) 10.00 19.00 PRODUCES Lab Acceptor (D154), Aman, Recomband Recomband Human Scales Hartschick 4 Scoreptor apins (D121) 20.00 19.00 PRODUCES Lab Acceptor (D154), Aman, Recomband Recomband Human Scales Hartschick 4 Scoreptor apins (D121) 20.00 19.00 PRODUCES Lab Acceptor (D154), Aman, Recomband Recomband Human Scales Hartschick 4 Scoreptor (D156) 20.00 <td></td> <td></td> <td></td> <td></td> <td></td>					
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PH00D1121 at. A Recipiter (D1214), human, monoshipset Recombinant Human Soluble Instance of approprint (D1214) 15.9 24.00 PH00D1121 at. A Recipiter (D1214), human, monoshipset Recombinant Human Soluble Instance of Approprint (D1214) 15.9 24.00 PH00D1224 MCGST, human, mocrohant Recombinant Human Macrohant Macrohant 20.0 24.00 PH00D1244 MCGST, human, mocrohant Recombinant Human Macrohant Macrohant 20.0 24.00 PH00D1245 MCGST, human, mocrohant Recombinant Human Macrohant Recombinant Human Macrohant 20.0 24.00 PH00D1245 MCGST, human, mocrohant Recombinant Human Macrohant MCGST Human, Macrohant 20.0 24.00 PH00D1245 MCGST, human, mocrohant Recombinant Human Macrohant 20.0 24.00 24					
PH00LTS1 st. 6 Rocyber (CD12b), human, recombinant Recombinant Human, burchuk, Macagar (CD12b) 20.0 10000 PH00LTS2 St. CL, human, recombinant Recombinant Human, Human, Burchuk, Macagar (CD12b) 20.0 10000 PH00LTS2 St. CL, human, recombinant Recombinant Human, Macagar (CD12b) 20.0 10000 PH00LTS2 LC, Human, Recombinant Recombinant Human, Macagar (CD12b) 20.0 10000 PH00LTS2 LC, SL, Human, Recombinant Recombinant Human, Macagar (CD12b) 10.0 10.00 PH00LTS2 LC, SL, SL, Buran, Recombinant Recombinant Human, Macagar (CD12b) 10.0 10.00 PH00LTS2 LC, SL, SL, Buran, Recombinant Recombinant Human, Macagar (CD12b) 10.0 10.00 PH00LTS2 LC, SL, Buran, Recombinant Recombinant Human, Macagar (CD12b) 20.0 10.00 PH00LTS2 LC, SL, Buran, Recombinant Recombinant Human, Macagar (CD12b) 20.0 10.00 PH00LTS2 LC, SL, Buran, Recombinant Recombinant Human, Macagar (LD12b) 20.0 10.00 PH00LTS2 LL, Buran, Recombinant Recombinant Human, Macagar (LD12b) 2					
PHOCUSE 4U/VE-1. function, eccontrant (SM) Reconstruct Huma Lupping Values factor (SM) manual (SM) 20.9 300.00 PHOCUSE AUX-1. (Loss, CL2.2), funct, eccontrant Reconstruct Huma Monopolic (SM) 0.0 100.00 PHOCUSE AUX-1. (Loss, CL2.2), funct, eccontrant Reconstruct Huma Monopolic (SM) 0.0 190.00 PHOCUSE AUX-1. (Loss, CL2.2), funct, eccontrant Reconstruct Huma Monopolic (SM) 0.0 190.00 PHOCUSE AUX-1. (Loss, CL2.2), funct, encontrant Reconstruct Huma Monopolic (SM) 0.0 190.00 PHOCUSE AUX-1. (Loss, Funct, encontrant Reconstruct Huma Monopolic (SM) 0.0 20.9 240.00 PHOCUSE MCD (CL2.2), Fall, Junan, eccontrant Reconstruct Hum Monopolic (SM) 0.0 20.9 240.00 PHOCUSE MCD (CL2.2), Fall, Junan, eccontrant Reconstruct Hum Monopolic (SM) 0.0 20.9 240.00 PHOCUSE MCD (CL2.2), Fall, Junan, eccontrant Reconstruct Hum Monopolic (SM) 0.0 20.9 240.00 PHOCUSE MLA - Junan, eccontrant Reconstruct Hum Monopolic (SU) 20.9 240.00 P					
PRC50281 MC-SF, human, incombinant Reconstruct Human Maptin Structure (Figure 1) 10-ja 18-bit PRC50283 MC-SF, human, incombinant Reconstruct Human Maptin Processor 200 1800 PRC50283 MC-SC (CL), human, incombinant Reconstruct Human Macrosys Democals Provat 3 (CC) 10-ja 1800 PRC50283 MC-SC (CL), human, incombinant Reconstruct Human Macrosys Democals Provat 3 (CC) 10-ja 1800 PRC50283 MC-SC (CL), human, incombinant Reconstruct Human Macrosys Democals Provat 3 (CC) 200 2000 PRC50284 MC-SC (CL), Jaman, incombinant Reconstruct Human Macrosys Democals Provat 3 (CL) 200 2000 PRC50284 MC-SC (CL), Jaman, incombinant Reconstruct Human Macroshipa Democals Provat 3 (CL) 200 200 2000					
PH00E080 MCF1 MCAF (2012), human, recombinant Recombinant Human Macrosyn Chemacular, Protein 2 (CCL) 109 199.00 PR00E0822 MCF2 (CCL), human, recombinant Recombinant Human Macrosyn Chemacular, Protein 2 (CCL) 109 199.00 PR00E0822 MCF2 (CCL), Farsh Junca, recombinant Recombinant Human Macrosyn Chemacular, Protein 2 (CCL) 109 199.00 PR00E0810 MCC (CCL), Farsh Junca, recombinant Recombinant Human Macrosyn Chemacular, Protein 2 (CCL) 20.9 240.00 PR00E0810 MCC (CCL), Farsh Junca, recombinant Recombinant Human Macrosyn Chemacular, Protein 2 20.9 240.00 PR00E0810 MCA, Juncan, recombinant Recombinant Human Macrosyn Chemacular, Protein 2 20.9 240.00 PR00E0810 MCA, Juncan, recombinant Recombinant Human Macrosyn Chemacular, Protein 2 20.9 240.00 PR00E0811 MCA, Juncan, recombinant Recombinant Human Macrosyn Chemacular, Protein 2 20.9 240.00 PR00E0811 MCA, Juncan, recombinant Recombinant Human Macrosyn Protein Jack 20.9 240.00 PR00E0811 MCA, Lunan, recombinant Recombinant Human Macrosyn Protein Jack 20.9 20.9		M-CSF, human, recombinant	Recombinant Human Macrophage Colony Stimulating Factor	10 µg	
PRC0512 MCPP (CL3, Imam, recombinent Recombining Chemostice Points (CL3) 191,01 PRC0512 MCPP (CL3, Imam, recombinent Recombining Main Macaging Chemostice Points (CL2) 191,01 PRC0512 MCP (CL3, Imam, recombinent Recombining Main Macaging Chemostice Points (CL2) 214,02 PRC0512 MCC (CL2, 25,61, Imam, recombinent Recombining Main Macaging Chemostice (CL2) 214,02 PRC0512 MCC (CL2, 25,61, Imam, recombining Recombining Main Macaging Chemostice (CL2) 214,02 PRC0512 MCL (CL2, 25,61, Imam, recombining Recombining Main Macaging Chemostice (CL2) 214,02 PRC0513 MCL (CL2, 1man, recombining Recombining Main Macaging Chemostice (CL2) 214,02 PRC0513 MCL (CL2, 1man, recombining Recombining Main Macaging Chemostice (CL2) 214,02 PRC0513 MCL (CL2, 1man, recombining Recombining Main Macaging Chemostice (CL2) 214,02 PRC0513 MCL (CL2, 1man, recombining Recombining Main Macaging Chemostice (CL2) 214,02 PRC0513 MCL (CL2, 1man, recombining Recombining Main Macaging Chemostice (CL2) 214,02 PRC0513 MCL2, 1man, recombining Recombining Main Macagin					
PROCESSIM MCP-1 (CLT), human, recombinant Recombinant Human Monorgin Chemicalle Presin 4 (CLT) (1):9 19:00 PROCESSIM MCP-1 (CLT), human, recombinant Recombinant Human Monorgin Chemical (CLT) 0:10 20:00 PROCESSIM MCC (CLT), thrun, recombinant Recombinant Human Monorgin Chemical (Patisal (CLT)) 0:10 20:00 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
PROCEPSIM MCC (CL2, 20, a), human, recombinant Recombinant Human Macorphage Detail Chambias (B caration) 2019 248.00 PROCEPSIM MCC (CL2, 20, a), human, recombinant Recombinant Human Macorphage Detail Chambias (B caration) 2019 248.00 PROCEPSIM MCC (CL2, 20, a), human, recombinant Recombinant Human Macorphage Detail Chambias (CL2) 249.00 PROCEPSIM MAGine, human, recombinant Recombinant Human Macorphage Detail (CL4) 2019 248.00 PROCEPSIM MAGine, human, recombinant Recombinant Human Macorphag Inflammator Protein 149.00 2019 248.00 PROCESSIM MAGine, human, recombinant Recombinant Human Macorphag Inflammator Protein 149.00 2019 248.00 PROCESSIM MAGine, human, recombinant Recombinant Human Macorphage Inflammator Protein 149.01 2019 248.00 PROCESSIM MAGine, human, recombinant Recombinant Human Macorphage Inflammator Protein 149.01 2019 248.00 PROCESSIM MAGine, human, recombinant Recombinant Human Macorphage Inflammator Protein 149.01 2019 248.00 PROCESSIM MAGine, human, recombinant Recombinant Human Macorphage Inflammator Protein 149.01 2019 <td></td> <td></td> <td></td> <td>10 µg</td> <td></td>				10 µg	
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PROCESSIM MEC (CL23) 219 248.00 PROCESSIM MA-2, haran, recombinant Recombinant Human Maccian Matching Motify Proton 2 20.90 20.80 PROCESSIM MA-2, haran, recombinant Recombinant Human Maccian Matching Proton 2 20.90 20.80 PROCESSIM ME, Janan, recombinant Recombinant Human Maccian Matching Faster (active) 20.90 20.80 PROCESSIM ME, Furana, recombinant Recombinant Human Maccian Maccing Faster (active) 20.90 20.80 PROCESSIM ME, Furana, recombinant Recombinant Human Maccine Maccing Faster (active) 20.90 24.80 PROCESSIM ME, Furana, recombinant Recombinant Human Maccine Maccing Faster 20.90 24.80 PROCESSIM ME-1 (actil_1), furana, recombinant Recombinant Human Maccine Ma					
PROCESSIM Mik-2, humar, neormbinant Recombinant Human Making Protein 2 20 2450 PROCESSIM Mik-2, humar, neormbinant Recombinant Human Making Factor (pt/hb) 101 1930 PROCESSIM Mik-1, humar, neormbinant Recombinant Human Making Factor (pt/hb) 101 1930 PROCESSIM Mik-1, ability, humar, neormbinant Recombinant Human Macrybage Inflammatory Potein 1-delpa (CCL4) 101 2400 PROCESSIM Mik-1 ability (CCL3), human, neormbinant Recombinant Human Macrybage Inflammatory Potein 1-delpa (CCL4) 101 2400 PROCESSIM Mik-1 ability (CCL3), human, neormbinant Recombinant Human Macrybage Inflammatory Potein 1-delpa (CCL3) 201 2400 PROCESSIM Mik-2 (CCL3), human, neormbinant Recombinant Human Macrybage Inflammatory Potein 4 (CCL3) 201 2400 PROCESSIM Mik-2 (CCL3), human, neormbinant Recombinant Human Macrybage Inflammatory Potein 4 (CCL3) 201 1900 PROCESSIM Mik-2 (CCL3), human, neormbinant Recombinant Human Macrybage Inflammatory Potein 4 (CCL3) 201 1900 PROCESSIM Mik-2 (CCL3), human, neormbinant Recombinant Human Macrybage Inflammatory Potein 4 (CCL3) <	PROC67940	MEC (CCL28), human, recombinant	Recombinant Human Mucosae Associated Epithelial Chemokine (CCL28)	20 µg	
PROCESSM Middine, Lunam, Accordinant Recombinant Human Mackine Inducing Factor (archive) 2019 208.00 PROCESSM Mit, Fuuram, Accordinant Recombinant Human Mackine Inducing Factor (archive) 251,9 198.00 PROCESSM Mit, Fuuram, Accordinant Recombinant Human Mackine Inducing Factor (archive) 251,9 248.00 PROCESSM Mit - back (bottman, neordinant Recombinant Human Macchen Inducing Factor (archive) 2019 248.00 PROCESSM Mit - back (bottman, neordinant Recombinant Human Macchen Jack (bottman) 2019 240.00 PROCESSM Mit - Saght (CL23), human, neordinant Recombinant Human Macchen Jack (bottman) 2019 240.00 PROCESSM Mit - Saght (CL23), human, neordinant Recombinant Human Macchen Jack (CL14) 2019 198.00 PROCESSM Mit - Saght (CL23), human, neordinant Recombinant Human Macchen Jack (CL14) 2019 198.00 PROCESSM Mit - Saght (CL23), human, neordinant Recombinant Human Mark Malsopolenians 7 2019 198.00 PROCESSM Mit - Saght (bottman, neordinant Recombinant Human Mark Malsopolenians 7 2019 2019.00 199.00		· · · · · · · · · · · · · · · · · · ·		20 µg	
PRC05814 ME (F partie), Luman, seconthiant Recorthiant Human Macodem Inducing Factor (active) 10 - juit 1980 PRC05811 MG (2CL3), Luman, recorthiant Recorthiant Human Macodem Inducing Pactor (active) 219 2480 PRC05881 MG (2CL3), Luman, recorthiant Recorthiant Human Macodem Inducing Pactor (active) 219 2480 PRC05880 MF-3 (CL2), Luman, recorthiant Recorthiant Human Macrophage Informatory Proten 3 (MPF - ACL3) 219 2480 PRC05880 MF-3 (CL2), Juman, recorthiant Recorthiant Human Macrophage Informatory Proten 3 styla (CL2) 219 2480 PRC05880 MF-3 (CL2), Juman, recorthiant Recorthiant Human Macrophage Informatory Proten 3 styla (CL2) 219 2800 PRC05881 MF-3 (CL2), Juman, recorthiant Recorthiant Human Macrophage Informatory Proten 3 styla (CL2) 219 1900 PRC05810 MF-3 (CL2), Juman, recorthiant Recorthiant Human Macrophage Informatory Proten 3 styla (CL2) 210 1900 PRC05810 MF-3 (CL2), Juman, recorthiant Recorthiant Human Macrophage Informatory Proten 3 (MF-1, Human, recorthiant Recorthiant Human Macrophage Informatory Proten 3 (MF-1, Human, recorthiant Recorthiant Human Macrophage 2 (MCL) 1000 1000					
PROCESSI MLF, human, recombinant Recombinant Human Maccien Inducting Textor 25 jp 1940.00 PROCESSI MLF, human, recombinant Recombinant Human Maccien gamma (CXC19) 219 2490.00 PROCESSI MLF, human, recombinant Recombinant Human Maccien gamma (CXC19) 219 2490.00 PROCESSI MLF, human, recombinant Recombinant Human Macrohage Informatory Protein 3 Light (CL23), human, recombinant 219 2490.00 PROCESSI MLF, add (CL23), human, recombinant Recombinant Human Macrohage Informatory Protein 3 Light (CL20) 219 2490.00 PROCESSI MLF, add (CL23), human, recombinant Recombinant Human Macrohage Informatory Protein 3 Light (CL23) 219 2490.00 PROCESSI MLF, add (CL23), human, recombinant Recombinant Human Macrohage Informatory Protein 3 Light (CL15) 219 1800.00 PROCESSI MLF, add (CL23), human, recombinant Recombinant Human Macrohage Informatory Protein 3 Light (CL15) 219 1800.00 PROCESSI MLF, add (CL23), human, recombinant Recombinant Human Macrohage Informatory Protein 3 Light (CL15) 219 2400.00 PROCESSI MLF, add (CL23), human, recombinant Recombinant Human Macrohage Informatory Protein 3 Light (CL21) 190 219 2400.00 190.00 190.00					
PROC6882 MIP-1 sph (CL3), huma, recombinant Recombinant Huma Macophage Informatory Protein - Sapin (CL3) 20 ip 248.00 PROC6882 MIP-3 (CL2), huma, recombinant Recombinant Huma Macophage Informatory Protein 3 (MIP-1, CL23) 20 ip 248.00 PROC6882 MIP-3 (CL23), huma, recombinant Recombinant Huma Macophage Informatory Protein 3 (MIP-1, CL23) 20 ip 248.00 PROC6882 MIP-3 (CL23), huma, recombinant Recombinant Huma Macophage Informatory Protein 3 (MIP-1, CL23) 20 ip 289.00 PROC68820 MIP-3 (CL23), huma, recombinant Recombinant Huma Macophage Informatory Protein 3 (MIP-1, CL23) 20 ip 289.00 PROC68810 MIP-3 (CL23), huma, recombinant Recombinant Huma Macophage Informatory Protein 3 (MIP-1, STA) 20 ip 199.00 PROC68810 MIP-3 (LL23), huma, recombinant Recombinant Huma Macophage Informatory Protein 3 (MIP-1, huma, recombinant Recombinant Huma Macophage Informatory Protein 3 (MIP-1, STA) 20 ip 280.00 PROC68810 MIP-3 (HL23), huma, recombinant Recombinant Huma Macophage Informatory Protein 3 (MIP-1, Huma, recombinant Recombinant Huma Nucropital 2 (CL2, I) 20 ip 280.00 PROC68810 MIP-3 (HL23), huma, recombinant Recombinant Huma				25 µg	
PROCESS2 MF1 bis (CL4), human, recombinant Recombinant Human Macrophage Informatory Protein 3(MF1-1, CL23) 20 248.00 PROCESS80 MF3 abja (CL23), human, recombinant Recombinant Human Macrophage Informatory Protein 3(MF1-1, CL23) 20 248.00 PROCESS87 MF3 abja (CL23), human, recombinant Recombinant Human Macrophage Informatory Protein 3(MF1-1) 20 248.00 PROCESS87 MF4 (CL15), human, recombinant Recombinant Human Macrophage Informatory Protein 3(CL16) 20 180.00 PROCESS80 MF4 (CL15), human, recombinant Recombinant Human Macrophage Informatory Protein 3(CL16) 20 190.00 PROCESS20 MMF7, human, recombinant Recombinant Human Macrophage Informatory Protein 3(CR17) 20 190.00 PROCESS20 MMF7, human, recombinant Recombinant Human Nucrophin Advisiting Protein 3(CRC17) 20 190.00 PROCESS20 MMF7, human, recombinant Recombinant Human Nucrophin Advisiting Protein 3(CRC17) 20 190.00 PROCESS20 MAF7, INRE-1, INRE-1, INRE-1, INRE-1, Recombinant Recombinant Human Nucrophin Advisiting Protein 3(CRC17) 20 190.00 PROCESS20 MAF7, INRE-1, Nucrophinant Recombinant Human N					
PROC6880 MF-3 (CCL2), human, recombinant Recombinent Human Macrophage Informatory Protein 3-lapha (CCL2) 20 jp 249.00 PROC6886 MF-3 abja (CCL2), human, recombinant Recombinent Human Macrophage Informatory Protein 3-lapha (CCL19) 20 jp 249.00 PROC6886 MF-3 bia (CCL2), human, recombinant Recombinent Human Macrophage Informatory Protein 3-lapha (CCL19) 20 jp 180.00 PROC6886 MF-7, human, recombinant Recombinent Human Macro Macrophage Informatory Protein 3-lapha (CCL19) 20 jp 190.00 PROC6810 MF-7, human, recombinant Recombinent Human Macro Macrophage Informatory Protein 3-lapha (CCL19) 20 jp 190.00 PROC6810 MF-7, human, recombinant Recombinent Human Macro Macrophage Informatory Protein 3-lapha (CCL19) 20 jp 240.00 PROC6820 MF-7, human, recombinant Recombinent Human Nutriciphi Recombinant 20 jp 240.00 PROC68210 MF-2 (CCL17), human, recombinant Recombinent Human Nutriciphi Recombining 20 jp 240.00 PROC68210 MF-2 (CSCL7), human, recombinant Recombinent Human Nutriciphi Recombining 20 jp 240.00 PROC68210 MF-2 (CSCL7), human, recombinant Recombini					
PROCESS7 MIP-3 bits (CL19), human, recombinant Recombinant Human Macriphage Inflammatory Protein 4 (CC19) 20 jp 29.00 PROCESS8 MIP-3 (CL15), human, recombinant Recombinant Human Macriphage Inflammatory Protein 6 (CC19) 20 jp 198.00 PROCESS8 MIP-3 (CL15), human, recombinant Recombinant Human Matrix Medialgoretarises 3 20 jp 198.00 PROCESS1 MIP-3 (numar, recombinant Recombinant Human Matrix Medialgoretarises 3 20 jp 198.00 PROCESS1 MIP-3 (numar, recombinant Recombinant Human Matrix Medialgoretarises 7 20 jp 198.00 PROCESS2 NAP-2 (CXC17), human, recombinant Recombinant Human Narogin 10 jp 199.00 PROCESS2 NAP-2 (CXC17), human, recombinant Recombinant Human Narogin 10 jp 199.00 PROCESS2 NAP-2 (CXC17), human, recombinant Recombinant Human Narotippin 20 jp 249.00 PROCESS2 NAP-2 (CXC17), human, recombinant Recombinant Human Narotippin 20 jp 249.00 PROCESS2 NAP-2 (CXC17), human, recombinant Recombinant Human Narotippin 20 jp 249.00 PROCESS2 NAP-2 (CXC17), human				20 µg	
PROCE888 MIP-4 (CCL 18), human, recombinant Recombinant Human Macrophage Inflammatory Poteint 5 (CCL 18) 10 jp 198.00 PROCE8880 MIP-5, Icunar, recombinant Recombinant Human Mark Mealloproteinas 3 20 jp 198.00 PROCE8810 MIP-5, Icunar, recombinant Recombinant Human Mark Mealloproteinas 7 20 jp 198.00 PROCE8810 Mipstain, human, recombinant Recombinant Human Macrophage Inflammatory Poteint 5 (CCL 17) 10 jp 198.00 PROCE8810 Mostain, human, recombinant Recombinant Human Macrophage Inflammatory Poteint 4 (CCL 17) 10 jp 198.00 PROCE8810 Neurospin, human, recombinant Recombinant Human Narog than in Human Narog Human Human Naro					
PR0Cet110 MMP-3, human, recombinant Recombinant Human Marix Maliagonetinase 3 20 µg 199.00 PR0Cet110 MMP-3, human, recombinant Recombinant Human Myostain 20 µg 199.00 PR0Cet320 Norsa human, recombinant Recombinant Human Myostain 20 µg 199.00 PR0Cet320 NAP-2 (CXCLT), human, recombinant Recombinant Human Neurophin 1 MCR-1, heregin 1 MCR-1 20 µg 249.00 PR0Cet320 NAP-2 (CXCLT), human, recombinant Recombinant Human Neurophin 1 MCR-1, heregin 1 MCR-1 20 µg 249.00 PR0Cet320 NAP-2 (CXCLT), human, recombinant Recombinant Human Neurophin 1 MCR-1 20 µg 249.00 PR0Cet3210 NNT+1 (DCSF-3), human, recombinant Recombinant Human Noclf Nuro 20 µg 249.00 PR0Cet3210 NOCSIN (L, human, recombinant Recombinant Human Noclf Nuro 20 µg 249.00 PR0Cet3230 NOT-1 (L, human, recombinant Recombinant Human Noclf Nuro 20 µg 249.00 PR0Cet3230 NOT-1 (L, human, recombinant Recombinant Human NOCSIN (Gr Cel Lulue) 20 µg 249.00 PR0Cet3230 NOT-1 (L, human, recombinant Recombin					
PR0C64110 MMP-7, human, recombinant Recombinant Human Marcix Metalipitotinase 7 20 µg 199.00 PR0C65820 Nang, human, recombinant Recombinant Human Nang 20 µg 249.00 PR0C65820 Nang, human, recombinant Recombinant Human Narog 20 µg 249.00 PR0C65820 Nang, human, recombinant Recombinant Human Neuropilan 1 (NRG-1, herguin beta-2) 50 µg 199.00 PR0C65820 Neurogalpin, human, recombinant Recombinant Human Neuropilan 1 (NRG-1, herguin beta-2) 20 µg 249.00 PR0C66820 Neurogalpin, human, recombinant Recombinant Human Neuropin 1 (RGF-3) 20 µg 249.00 PR0C68731 NOGGIN (OC, human, recombinant Recombinant Human NoGGIN (forcel) 20 µg 249.00 PR0C68732 NOGGIN, human, recombinant Recombinant Human NoGGIN (forcel) 20 µg 249.00 PR0C68732 NOV, human, recombinant Recombinant Human NordForDin 1 (GFF-3) 10 µg 249.00 PR0C68733 NOV, human, recombinant Recombinant Human NordForDin 1 (GFF-3) 20 µg 249.00 PR0C68725 NT-1, human, recombinant Recombinant Human NordForDin	PROC65890	MIP-5 (CCL15), human, recombinant	Recombinant Human Macrophage Inflammatory Protein 5 (CCL15)	25 µg	199.00
PR0C6820 Mystalin, human, recombinant Recombinant Human Nang 20 µ 249.00 PR0C64320 NAP-2 (XCk17), human, recombinant Recombinant Human Nang 20 µ 249.00 PR0C64320 NAP-2 (XCk17), human, recombinant Recombinant Human Neurgulin 1 (NR-1, Hergulin Lest) 50 µ 199.00 PR0C65712 Neuragilin 1 (NR-1), human, recombinant Recombinant Human Neurgulin 1 (NR-1, Hergulin Lest) 20 µ 248.00 PR0C65721 Neuragin 1 (NR-1), human, recombinant Recombinant Human Neurgulin 1 (NR-1), Human, recombinant 20 µ 248.00 PR0C66721 Neuragin 1 (NR-1), human, recombinant Recombinant Human Neurgulin 1 (NR-1), Human, recombinant 20 µ 248.00 PR0C66721 NO5GN (CC, human, recombinant Recombinant Human NoGGN (Group Magnet					
PPCC64323 Nanos, human, recombinant Recombinant Human Neuropila Archiving Protein 2 (CXC)7 10 ju 919.00 PPCC64320 Neuroglini-1 (NRG-1), human, recombinant Recombinant Human Neuropila find (RG-1, heuropila fund) 10 ju 919.00 PPCC64320 Neuroglini-1 (NRG-1), human, recombinant Recombinant Human Neuropila find (RG-1, heuropila find) 20 ju 9249.00 PPCC66320 Neurospin, human, recombinant Recombinant Human Neurospin 29 ju 9249.00 PPCC66421 NNT-1 (RGSF-3), human, recombinant Recombinant Human NOGSI (NG-Cl-Cl-Statu) 20 ju 9249.00 PPCC67525 NOGGIN C, human, recombinant Recombinant Human NOGSI (NG-Cl-Cl-Statu) 20 ju 9249.00 PPCC67526 NOGGIN N, human, recombinant Recombinant Human NOGSI (NG-Cl-Cl-Statu) 20 ju 9249.00 PPCC64323 N-1, human, recombinant Recombinant Human NOGSI (NG-Cl-Statu) 20 ju 9249.00 PPCC64320 N-1, human, recombinant Recombinant Human Neutroppin 4 10 ju 918.00 PPCC64320 N-1, human, recombinant Recombinant Human Neutroppin 4 10 ju 9249.00 PPCC64320 N-1, human, recombinant Recombinant Human Obergin 10 ju 9249.00 10 ju 9249.00 PPCC64320					
PR0C07512 Neuroglobin, human, recombinant Recombinant Human Neuroglobin 50, jp 199.00 PR0C06201 Neuroglobin, human, recombinant Recombinant Human Neuroglobin 22 µg 249.00 PR0C06210 Neuroting (Thy Juman, recombinant Recombinant Human Neuroting (TN) 22 µg 249.00 PR0C06310 NDGGIN C, human, recombinant Recombinant Human NOGIN (GC -Cl Clubre) 20 µg 249.00 PR0C06320 NDGGIN C, human, recombinant Recombinant Human NOGIN (GC -Cl Clubre) 20 µg 249.00 PR0C06330 ND (J, human, recombinant Recombinant Human NOGIN (GC -Cl Clubre) 20 µg 249.00 PR0C06433 NT-1, human, recombinant Recombinant Human NOGIN (GC -Cl Clubre) 20 µg 249.00 PR0C06430 NT-3, human, recombinant Recombinant Human Neutroppin 4 10 µg 19.00 PR0C06430 NT-4, human, recombinant Recombinant Human Neutroppin 4 10 µg 249.00 PR0C66430 NT-4, human, recombinant Recombinant Human Neutroppin 4 10 µg 249.00 PR0C66430 NT-4, human, recombinant Recombinant Human Neutroppin 4 10 µg <td></td> <td>Nanog, human, recombinant</td> <td>Recombinant Human Nanog</td> <td>20 µg</td> <td></td>		Nanog, human, recombinant	Recombinant Human Nanog	20 µg	
PRC026820Neurogicin, human, recombinantRecombinant Human Neurogipin10 jup1940.00PRC026826Neurotarin, human, recombinantRecombinant Human Neuropin (IRCSF-3)10 jup249.00PRC026847NOGGIN CC, human, recombinantRecombinant Human Neuropin (IRCSF-3)10 jup249.00PRC026735NOGGIN CC, human, recombinantRecombinant Human Noval Neuropin (IRCSF-3)20 jup249.00PRC026736NOGGIN Intran, recombinantRecombinant Human Noval Neuropin (IRCSF-3)20 jup249.00PRC026736NOGGIN Intran, recombinantRecombinant Human Neurotopin typeids (Ighne-Defension)20 jup249.00PRC026530NOV, human, recombinantRecombinant Human Neurotopin typeids (Ighne-Defension)20 jup249.00PRC026632NT-3, human, recombinantRecombinant Human Neurotopin 410 jup198.00PRC0266320Omestini, human, recombinantRecombinant Human Oncetain10 jup249.00PRC0265320Omestini, human, recombinantRecombinant Human Oncetain10 jup249.00PRC0265320OX40L, human, recombinantRecombinant Human Otspripin20 jup249.00PRC0265320OX40L, human, recombinantRecombinant Human Dispeiderin (Stacolastogenesis Inhibitory Factor)50 jup198.00PRC0265320OX40L, human, recombinantRecombinant Human Dispeiderin20 jup248.00PRC0265320OX40L, human, recombinantRecombinant Human Dispeiderin (Stacolastogenesis Inhibitory Factor)50 jup29 jupPRC0265320DX-4L, human, rec					
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PROC63022PDGF-BB, human, recombinant (E. coli)Recombinant Human Platelet Derived Growth Factor BB (E. coli-derived)10 μg199.00PROC63024PDGF-BB, human, recombinant (Yeast)Recombinant Human Platelet Derived Growth Factor BB (yeast-derived)10 μg199.00PROC63030PEDF, homan, recombinantRecombinant Human Platelet Derived Growth Factor CC20 μg249.00PROC63030PEDF, human, recombinantRecombinant Human Periostin10 μg199.00PROC63030PEDF, human, recombinantRecombinant Human Periostin10 μg249.00PROC66303Periostin, human, recombinantRecombinant Human Periostin20 μg249.00PROC66303PF-4 (CXCL4), human, recombinantRecombinant Human Periostin20 μg199.00PROC66030PGRN, human, recombinantRecombinant Human Platelet Factor 4 (CXCL4)20 μg199.00PROC66030PGRN, human, recombinantRecombinant Human Platenta Growth Factor 1 (E. coli-derived)20 μg199.00PROC66022PLGF-1, human, recombinant (E. coli)Recombinant Human Placenta Growth Factor 1 (E. coli-derived)10 μg199.00PROC66023PLGF-2, human, recombinant (Sf9)Recombinant Human Placenta Growth Factor 2 (Sf9 insect cell-derived)10 μg199.00PROC66030PLGF-2, human, recombinantRecombinant Human Pro-Nerve Growth Factor 2 (Sf9 insect cell-derived)10 μg199.00PROC66033Pro-NGF, human, recombinantRecombinant Human Pro-Nerve Growth Factor 2 (Sf9 insect cell-derived)10 μg199.00PROC66035Prolactin R				10 µg	
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PROC66133Pro-NGF, human, recombinantRecombinant Human Pro-Nerve Growth Factor10 µg199.00PROC67308ProBMP-2, human, recombinantRecombinant Human Pro Bone Morphogenetic Protein 210 µg199.00PROC63035Prokinectin-2, human, recombinantRecombinant Human Pro Bone Morphogenetic Protein 220 µg249.00PROC63035Prolactin Receptor (Prlr), human, recombinantRecombinant Human Prolactin Receptor (Prlr)5 µg399.00PROC640035Prolactin, human, recombinantRecombinant Human Prolactin50 µg199.00PROC67400Prox-1 (fragment), human, recombinantRecombinant Human Prox-1 (fragment)50 µg199.00PROC666650PTHrP, human, recombinantRecombinant Human Parathyroid Hormone-like Related Protein50 µg199.00PROC664130RANTES (CCL5), human, recombinantRecombinant Human RANTES (CCL5)20 µg199.00					
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PROC60035 Prolactin, human, recombinant Recombinant Human Prolactin 50 µg 199.00 PROC67400 Prox-1 (fragment), human, recombinant Recombinant Human Prox-1 (fragment) 5 µg 199.00 PROC66605 PTHrP, human, recombinant Recombinant Human Parathyroid Hormone-like Related Protein 5 µg 199.00 PROC666130 RANTES (CCL5), human, recombinant Recombinant Human RANTES (CCL5) 20 µg 199.00					
PROC67400 Prox-1 (fragment), human, recombinant Recombinant Human Prox-1 (fragment) 5 μg 199.00 PROC66650 PTHrP, human, recombinant Recombinant Human Parathyroid Hormone-like Related Protein 50 μg 199.00 PROC64130 RANTES (CCL5), human, recombinant Recombinant Human RANTES (CCL5) 20 μg 199.00					
PROC64130 RANTES (CCL5), human, recombinant Recombinant Human RANTES (CCL5) 20 µg 199.00	PROC67400	Prox-1 (fragment), human, recombinant	Recombinant Human Prox-1 (fragment)	5 µg	199.00
				25 µg	

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HUMAN RECOMBINANT (Cont'd)

Product Number	Product Name	Description	Pkg Size	Price
PROC66676	Relaxin-3, human, recombinant	Recombinant Human Relaxin 3	25 µg	\$249.00
PROC66665	RELM beta, human, recombinant	Recombinant Human Resistin-like Molecule beta	25 µg	199.00
PROC66670	Resistin, human, recombinant	Recombinant Human Resistin	25 µg	199.00
PROC63120	SCF, human, recombinant (E. coli)	Recombinant Human Stem Cell Factor (E. coli-derived)	10 µg	199.00
PROC63125	SCF, human, recombinant (Sf9)	Recombinant Human Stem Cell Factor (Sf9 insect cell-derived)	10 µg	199.00
PROC63130	SCGF-alpha, human, recombinant	Recombinant Human Stem Cell Growth Factor alpha	10 µg	249.00
PROC63140	SCGF-beta, human, recombinant	Recombinant Human Stem Cell Growth Factor beta	10 µg	249.00
PROC67220	SDF-1 alpha (CXCL12), human, recombinant	Recombinant Human Stromal Cell Derived Factor 1-alpha (CXCL12)	10 µg	199.00
PROC67320 PROC66680	SDF-1 beta (CXCL12), human, recombinant Shh, human, recombinant (InC)	Recombinant Human Stromal Cell Derived Factor 1-beta (CXCL12) Recombinant Human Sonic Hedge Hog (insect cell-derived)	10 μg 10 μg	199.00 249.00
PROC68322	Slit2-N, human, recombinant	Recombinant Human Slit2-N	10 µg	249.00
PROC63201	sRANK Receptor, human, recombinant	Recombinant Human Soluble Receptor Activator of NF-Kappa-B Receptor (TNFRSF11A)	100 µg	249.00
PROC63200	sRANKL, human, recombinant	Recombinant Human soluble Receptor Activator of NF-Kappa-B Ligand	10 µg	199.00
PROC68025	sTIE-1/Fc Chimera, human, recombinant (Sf9)	Recombinant Human soluble TIE-1/Fc Chimera (Sf9 insect cell-derived)	20 µg	199.00
PROC68028	sTIE-2/Fc Chimera, human, recombinant (Sf9)	Recombinant Human soluble TIE-2/Fc Chimera (Sf9 insect cell-derived)	20 µg	199.00
PROC63725	sTNF-R1 (CD120a), human, recombinant	Recombinant Human soluble Tumor Necrosis Factor Receptor Type I (CD120a)	20 µg	199.00
PROC63760	sTNF-R2 (CD120b), human, recombinant	Recombinant Human soluble Tumor Necrosis Factor Receptor Type II (CD120b)	20 µg	199.00
PROC63601 PROC63602	sTRAIL Receptor-1 (DR4), human, recombinant	Recombinant Human soluble TNF Related Apoptosis Inducing Ligand Receptor 1 (DR4)	50 µg	249.00 249.00
PROC63602 PROC64430	sTRAIL Receptor-2 (DR5), human, recombinant sVEGFR-1 (flt-1) D1-3, human, recombinant (Sf9)	Recombinant Human soluble TNF Related Apoptosis Inducing Ligand Receptor 2 (DR5) Recombinant Human soluble Vascular Endothelial Growth Factor Receptor 1,	50 μg 5 μg	249.00 199.00
FIX0004430		Domain 1-3 (fit-1; Sf9 insect cell-derived)	5 µg	199.00
PROC64440	sVEGFR-1 (flt-1) D1-4, human, recombinant (Sf9)	Recombinant Human soluble Vascular Endothelial Growth Factor Receptor 1,	5 µg	199.00
PROC64450	sVEGFR-1 (flt-1) D1-5, human, recombinant (Sf9)	Domain 1-4 (fit-1; Sf9 insect cell-derived) Recombinant Human soluble Vascular Endothelial Growth Factor Receptor 1,	5 µg	139.00
110004430		Domain 1-5 (fit-1; Sf9 insect cell-derived)	υμg	100.00
PROC64465	sVEGFR-1 (flt-1) D7-Fc, human, recombinant (Sf9)	Recombinant Human soluble Vascular Endothelial Growth Factor Receptor 1, Domain 1-7 (flt-1, Fc chimera; Sf9 insect cell-derived)	10 µg	99.00
PROC64460	sVEGFR-1 (flt-1, native), human, recombinant (Sf9)	Recombinant Human soluble Vascular Endothelial Growth Factor Receptor 1	5 µg	139.00
FIX0004400		(fit-1, native, Sf9 insect cell-derived)	5 µg	155.00
PROC64425	sVEGFR-1 (flt-1, native), human, recombinant (Sf9)	Recombinant Human soluble Vascular Endothelial Growth Factor Receptor 1 (flt-1, native, Sf9 insect cell-derived)	20 µg	199.00
PROC64470	sVEGFR-2 (sKDR) D1-D7, human, recombinant (Sf9)	Recombinant Human soluble Vascular Endothelial Growth Factor Receptor 2, Domain 1-7 (sKDR; Sf9 insect cell-derived)	5 µg	99.00
PROC64472	sVEGFR-2 (sKDR-Fc) D7, human, recombinant (Sf9)	Recombinant Human soluble Vascular Endothelial Growth Factor Receptor 2,	10 µg	120.00
		Domain 1-7 (sKDR, Fc chimera; Sf9 insect cell-derived)	10	
PROC64428	sVEGFR-3 (flt-4), human, recombinant (Sf9)	Recombinant Human soluble Vascular Endothelial Growth Factor Receptor-3 (flt-4, native, Sf9 insect cell-derived)	10 µg	199.00
PROC66690	TACI, human, recombinant	Recombinant Human Transmembrane Activator and CAML Interactor	20 µg	249.00
PROC63620	TAFA-2, human, recombinant	Recombinant Human TAFA 2	20 µg 20 µg	249.00
PROC68010 PROC68020	TARC (CCL17), human, recombinant TECK (CCL25), human, recombinant	Recombinant Human Thymus and Activation Regulated Chemokine (CCL17) Recombinant Human Thymus Expressed Chemokine (CCL25)	20 µg 20 µg	249.00 249.00
PROC65050	TFF-1, human, recombinant	Recombinant Human Trefoil Factor 1	20 µg	199.00
PROC65052	TFF-2, human, recombinant	Recombinant Human Trefoil Factor 2	20 µg	199.00
PROC65053	TFF-3, human, recombinant	Recombinant Human Trefoil Factor 3	20 µg	199.00
PROC63535	TGF-alpha, human, recombinant	Recombinant Human Transforming Growth Factor alpha	100 µg	249.00
PROC63501	TGF-beta 1 (A293 cells), human, recombinant	Recombinant Human Transforming Growth Factor beta-1 (mammalian A293 cell-derived)	5 µg	249.00
PROC63504	TGF-beta 1, human, recombinant (CHO)	Recombinant Human Transforming Growth Factor beta-1 (CHO cell-derived)	5 µg	249.00
PROC63502 PROC63506	TGF-beta 2 (A293 cells), human, recombinant TGF-beta 2, human, recombinant (Sf9)	Recombinant Human Transforming Growth Factor beta-2 (mammalian A293 cell-derived) Recombinant Human Transforming Growth Factor beta-2 (Sf9 insect cell-derived)	5 µg	249.00 249.00
PROC63507	TGF-beta 3, human, recombinant	Recombinant Human Transforming Growth Factor beta-2 (Sis insect cen-derived)	5 µg 10 µg	199.00
PROC68560	TIMP-1, human, recombinant	Recombinant Human Tissue Inhibitor of Metalloproteinases 1	10 µg	249.00
PROC68562	TIMP-2, human, recombinant	Recombinant Human Tissue Inhibitor of Metalloproteinases 2	10 µg	249.00
PROC65065	TL-1A, human, recombinant	Recombinant Human TNF-like 1A (TNFSF15)	20 µg	249.00
PROC68035	TLR-3 (CD283), human, recombinant	Recombinant Human Toll-like Receptor 3 (CD283)	25 µg	249.00
PROC63723	TNF-alpha M, human, recombinant	Recombinant Human Tumor Necrosis Factor alpha, Mutant/Variant (151 aa variant)	50 µg	199.00
PROC63722	TNF-alpha, human, recombinant (E. coli)	Recombinant Human Tumor Necrosis Factor alpha (E. coli-derived)	10 µg	99.00
PROC63719	TNF-alpha, human, recombinant (E. coli)	Recombinant Human Tumor Necrosis Factor alpha (E. coli-derived)	50 µg	199.00
PROC63721 PROC63720	TNF-alpha, human, recombinant (Yeast) TNF-alpha, human, recombinant (Yeast)	Recombinant Human Tumor Necrosis Factor alpha (yeast-derived) Recombinant Human Tumor Necrosis Factor alpha (yeast-derived)	50 μg 10 μg	199.00 99.00
PROC63720 PROC63731	TNF-aipha, numan, recombinant (reast)	Recombinant Human Tumor Necrosis Factor alpha (yeast-derived) Recombinant Human Tumor Necrosis Factor beta	10 μg 20 μg	99.00 199.00
PROC63733	TNF-beta, human, recombinant (InC)	Recombinant Human Tumor Necrosis Factor beta (insect cell-derived)	20 µg 20 µg	249.00
PROC63726	TNF-Receptor Fusion Protein, human, recombinant	Recombinant Human Tumor Necrosis Factor Receptor Fusion Protein	50 μg	199.00
PROC65114	TPO, human, recombinant (CHO)	Recombinant Human Thrombopoietin (Mp1-ligand, MGDF, CHO cell-derived)	10 µg	199.00
PROC65112	TPO, human, recombinant (E. coli)	Recombinant Human Thrombopoietin (Mp1-ligand, MGDF; E. coli-derived)	10 µg	199.00
PROC63600	TRAIL (Apo2L), human, recombinant	Recombinant Human Tumor Necrosis Factor-Related Apoptosis Inducing Ligand	50 µg	199.00
PROC63766	TSG , human, recombinant	Recombinant Human Twisted Gastrulation Protein	50 µg	249.00
PROC63770	TSLP, human, recombinant	Recombinant Human Thymic Stromal Lymphopoietin	10 µg	249.00
PROC63612	TWEAK Receptor, human, recombinant	Recombinant Human TNF-Related Weak Inducer of Apoptosis Receptor	25 µg	249.00
PROC63610 PROC68325	TWEAK, human, recombinant Vaspin, human, recombinant	Recombinant Human TNF-Related Weak Inducer of Apoptosis Recombinant Human Vaspin	25 μg 25 μg	199.00 199.00
PROC664410	VEGF-121, human, recombinant	Recombinant Human Vascular Endothelial Cell Growth Factor 121	25 μg 5 μg	199.00
PROC64409	VEGF-121, human, recombinant (Sf9)	Recombinant Human Vascular Endothelial Cell Growth Factor 121 (Sf9-insect cell-derived)	10 µg	199.00
PROC64418	VEGF-145, human, recombinant (Sf9)	Recombinant Human Vascular Endothelial Cell Growth Factor 145 (Sf9-insect cell-derived)	5 µg	199.00
PROC64424	VEGF-165, human, recombinant (CHO)	Recombinant Human Vascular Endothelial Cell Growth Factor 165 (CHO cell-derived)	10 µg	199.00
PROC64420	VEGF-165, human, recombinant (E. coli)	Recombinant Human Vascular Endothelial Cell Growth Factor 165 (E. coli-derived)	10 µg	199.00
PROC64423	VEGF-165, human, recombinant (Sf9)	Recombinant Human Vascular Endothelial Cell Growth Factor 165 (Sf9-insect cell-derived)	10 µg	199.00
PROC64415	VEGF-189, human, recombinant	Recombinant Human Vascular Endothelial Cell Growth Factor 189	20 µg	399.00
PROC64411	VEGF-B, human, recombinant	Recombinant Human Vascular Endothelial Cell Growth Factor B	20 µg	249.00
PROC64412 PROC64416	VEGF-C, human, recombinant VEGF-E, Orv virus, recombinant	Recombinant Human Vascular Endothelial Cell Growth Factor C Recombinant Orv Virus Vascular Endothelial Cell Growth Factor E	20 µg 10 µg	399.00 249.00
PROC64416 PROC64480	VEGF-E, Orv virus, recombinant VEGF-I, human, recombinant	Recombinant Orv Virus Vascular Endothelial Cell Growth Factor E Recombinant Human Vascular Endothelial Cell Growth Factor Inhibitor	10 μg 10 μg	249.00 199.00
PROC68330	Visfatin, human, recombinant	Recombinant Human Visfatin	20 µg	199.00
	WISP-1, human, recombinant	Recombinant Human WNT-1-Inducible Signaling Pathway Protein 1	20 µg	249.00
PROC68310				
PROC68310 PROC68312 PROC68316	WISP-3, human, recombinant WNT-1, human, recombinant	Recombinant Human WNT-1-Inducible Signaling Pathway Protein 3 Recombinant Human WNT-1	20 μg 10 μg	249.00 249.00

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PRODE330IL-27 (28), fnouse, recombinantRecombinant Mouse Intellevin 310 µg248.00PRODE340IL-31, mouse, recombinantRecombinant Mouse Intellevin 3110 µg248.00PRODE3250IL-31, mouse, recombinantRecombinant Mouse Intellevin 3310 µg248.00PRODE3410IL-4, mouse, recombinantRecombinant Mouse Intellevin 310 µg248.00PRODE3411IL-5, mouse, recombinantRecombinant Mouse Intellevin 525 µg249.00PRODE3412IL-6, mouse, recombinantRecombinant Mouse Intellevin 610 µg198.00PRODE3420IL-7, mouse, recombinantRecombinant Mouse Intellevin 610 µg198.00PRODE3420IL-7, mouse, recombinantRecombinant Mouse Intellevin 710 µg198.00PRODE3420IL-7, mouse, recombinantRecombinant Mouse Intellevin 710 µg198.00PRODE3420IL-26, mouse, recombinantRecombinant Mouse Intellevin 720 µg249.00PRODE3420LUK (XCLS, 70 an), mouse, recombinantRecombinant Mouse IAPI (XCLL)20 µg249.00PRODE3420LUK (XCLS, 70 an), mouse, recombinantRecombinant Mouse Leppin (mouse, mecombinant20 µg249.00PRODE3420LUK (XCLS, 70 an), mouse, recombinantRecombinant Mouse Lupping (CXLL)20 µg249.00PRODE3420LUK (XCLS, 70 an), mouse, recombinantRecombinant Mouse Lupping (CXLL)20 µg249.00PRODE3420LUK (XCLS, 70 an), mouse, recombinantRecombinant Mouse Lupping (CXLL)20 µg249.00PRODE3420 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
PRDDE1340L-3, mouse, recombinantRecombinant Mouse Interleukin 310 µg194.00PRDDE2356L-31, mouse, recombinantRecombinant Mouse Interleukin 3110 µg249.00PRDDE1412L-4, mouse, recombinantRecombinant Mouse Interleukin 3310 µg249.00PRDDE1412L-5, mouse, recombinantRecombinant Mouse Interleukin 610 µg199.00PRDDE1412L-6, mouse, recombinantRecombinant Mouse Interleukin 610 µg199.00PRDDE1510L-7, mouse, recombinantRecombinant Mouse Interleukin 610 µg199.00PRDDE5301L-7, mouse, recombinantRecombinant Mouse Interleukin 710 µg199.00PRDDE5301L-7, mouse, recombinantRecombinant Mouse Interleukin 710 µg199.00PRDDE5301L-9, funce, recombinantRecombinant Mouse Interleukin 910 µg199.00PRDDE5301L-9, funce, recombinantRecombinant Mouse ILeptin1mg199.00PRDDE5302Leptin, mouse, recombinantRecombinant Mouse Leptin1mg199.00PRDDE5311LX (CXCL5, 70 aa), mouse, recombinantRecombinant Mouse Leptin1mg199.00PRDDE532Lux (CXCL5, 70 aa), mouse, recombinantRecombinant Mouse Leptin20 µg248.00PRDDE532Lux (CXCL5, 70 aa), mouse, recombinantRecombinant Mouse Macrophage Cohny Stimulating Factor10 µg199.00PRDDE532Lux (CXCL5, 70 aa), mouse, recombinantRecombinant Mouse Macrophage Cohny Stimulating Factor10 µg199.00PRDDE533MC-1 (LF, CCL2), mou					
PROD62365L-33, mouse, recombinantRecombinant Mouse Interlegidin 3310 jup249.00PROD61412L-4, mouse, recombinantRecombinant Mouse Interlegidin 525 jup249.00PROD61612L-7, mouse, recombinantRecombinant Mouse Interlegidin 610 jup199.00PROD61621L-7, mouse, recombinantRecombinant Mouse Interlegidin 710 jup199.00PROD61632L-4, mouse, recombinantRecombinant Mouse Interlegidin 710 jup199.00PROD65340P-10 (XCL 10), mouse, recombinantRecombinant Mouse Interlegidin 720 jup199.00PROD65420L-6 (XCL 57, 0 as), mouse, recombinantRecombinant Mouse Leptin1 mg199.00PROD65420Luft, mouse, recombinantRecombinant Mouse Leptin1 mg199.00PROD65421LUK (XCL 57 0 as), mouse, recombinantRecombinant Mouse Leptin20 jup249.00PROD65522Lurgitine (XCL 15), mouse, recombinantRecombinant Mouse Leptin20 jup249.00PROD65521LUK (XCL 57 0 as), mouse, recombinantRecombinant Mouse Leptin20 jup249.00PROD65522Lurgitine (XCL 15), mouse, recombinantRecombinant Mouse Lingprive CO-chemokine (XCL 5, 93 as variant)20 jup249.00PROD65525Lurgitine (XCL 15), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein JCC CL2)10 jup19.00PROD65526Lurgitine (XCL 15), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein JCC CL2)10 jup19.00PROD6525MCP-1 (LE, CCL 2), mouse, recombinant		IL-3, mouse, recombinant	Recombinant Mouse Interleukin 3	10 µg	
PRCD61410LL-f, mouse, recombinantRecombinant Mouse Interfaukin 510 jg199.00PRCD61612LL-f, mouse, recombinantRecombinant Mouse Interfaukin 710 jg199.00PRCD6170LT-f, mouse, recombinantRecombinant Mouse Interfaukin 710 jg199.00PRCD6170LL-f, mouse, recombinantRecombinant Mouse Interfaukin 710 jg199.00PRCD6520LL-f, mouse, recombinantRecombinant Mouse Interfaukin 710 jg199.00PRCD6520KC (GRC-alpha, CXCL1), mouse, recombinantRecombinant Mouse Interfaukin 910 jg199.00PRCD65210LL-f, mouse, recombinantRecombinant Mouse Lepin10 jg249.00PRCD65210LLY (CXCL5, 70 as), mouse, recombinantRecombinant Mouse Lepin20 jg249.00PRCD65251LLX (CXCL5, 70 as), mouse, recombinantRecombinant Mouse Lippolysaccharide Induced CXC Chemokine (CXCL5, 70 as variant)20 jg249.00PRCD66525Lungkine (CXCL15), mouse, recombinantRecombinant Mouse Lippolysaccharide Induced CXC Chemokine (CXCL5, 70 as variant)20 jg249.00PRCD66525MCP-3 (CL17), mouse, recombinantRecombinant Mouse Moncyce Chemotaccic Protein JCCL5, 70 as variant)20 jg249.00PRCD66572MCP-3 (CL21), mouse, recombinantRecombinant Mouse Moncyce Chemotaccic Protein JCCL2)20 jg249.00PRCD6572MCP-3 (CCL2), mouse, recombinantRecombinant Mouse Moncyce Chemotaccic Protein JCCL2)20 jg249.00PRCD6572MCP-3 (CCL2), mouse, recombinantRecombinant Mouse Moncyce Chemotaccic Protein JCCL2)<					
PR0D61412 LL-5, mouse, recombinant Recombinant Mouse Interfaultin 5 25 µg 249.00 PR0D61612 LL-6, mouse, recombinant Recombinant Mouse Interfaultin 7 10 µg 199.00 PR0D61520 LL-7, mouse, recombinant Recombinant Mouse Interfaultin 7 10 µg 199.00 PR0D65300 IP-10 (CXCL10), mouse, recombinant Recombinant Mouse Interfaultin 7 25 µg 199.00 PR0D65420 Lepin, mouse, recombinant Recombinant Mouse Lepin 1 mg 29 µg 249.00 PR0D66520 Lepin, mouse, recombinant Recombinant Mouse Lipopolysacchardie Induced CXC Chemokine (CXCL5, 70 aa variant) 20 µg 249.00 PR0D66520 LUK (CXCL5 30 aa), mouse, recombinant Recombinant Mouse Lipopolysacchardie Induced CXC Chemokine (CXCL5, 70 aa variant) 20 µg 249.00 PR0D66520 Lungkine (CXCL15) 20 µg 249.00 20 µg 249.00 PR0D66530 Lix (CXCL5, 30 aa), mouse, recombinant Recombinant Mouse Monocyte Chemotatic Protein (JE CCL2) 20 µg 249.00 PR0D66730 MCP-1 (JE, CCL2), mouse, recombinant Recombinant Mouse Monocyte Chemotatic Protein (JE CCL2) 20 µg 249.00 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
PROD61710LL-7, mouse, recombinantRecombinant Mouse Interleukin 710 µg199.00PROD65340IP-10 (CXCL10), mouse, recombinantRecombinant Mouse Interleukin 325 µg199.00PROD65420KC (GRO-alpha, CXCL1), mouse, recombinantRecombinant Mouse IFN Inducible Protein 10 (CXCL10)20 µg199.00PROD65420KC (GRO-alpha, CXCL1), mouse, recombinantRecombinant Mouse Keratincycle Ochemoattractant (GRO-alpha, CXCL1)20 µg248.00PROD65670LLK (CXCL5, 70 aa), mouse, recombinantRecombinant Mouse Leptin20 µg248.00PROD65620LLK (CXCL5, 70 aa), mouse, recombinantRecombinant Mouse Lipopolysaccharide Induced CXC Chemokine (CXCL5, 70 aa variant)20 µg248.00PROD65620LLK (CXCL5, 50 aa), mouse, recombinantRecombinant Mouse Lipopolysaccharide Induced CXC Chemokine (CXCL5, 70 aa variant)20 µg248.00PROD66520Lungkine (CXCL15), mouse, recombinantRecombinant Mouse Moncyte Chemotactic Protein J(E, CL2)10 µg199.00PROD66572MCP-2 (CCL3), mouse, recombinantRecombinant Mouse Moncyte Chemotactic Protein J(E, CL2)10 µg199.00PROD65724MCP-3 (CCL2), mouse, recombinantRecombinant Mouse Moncyte Chemotactic Protein J (CCL7)10 µg199.00PROD65734MCP-3 (CCL2), mouse, recombinantRecombinant Mouse Macrophage Darived Chemotactic Protein J (CCL7)10 µg199.00PROD65740MEC (CCL2), mouse, recombinantRecombinant Mouse Macrophage Darived Chemotactic Protein J (CL2)20 µg249.00PROD65740MEC (CCL2), mouse, recombinantRecombinan				25 µg	
PROD65320LL-9, mouse, recombinantRecombinant Mouse Interleukin 910 [µ]199.00PROD65420KC (GRO-alpha, CXCL1), mouse, recombinantRecombinant Mouse Leptin20 µg199.00PROD65420Leptin, mouse, recombinantRecombinant Mouse Leptin1 mg199.00PROD6520Leptin, mouse, recombinantRecombinant Mouse Leptin1 mg199.00PROD66519LIX (CXCL5, 70 aa), mouse, recombinantRecombinant Mouse LiCHT20 µg248.00PROD66520LIX (CXCL5, 30 aa), mouse, recombinantRecombinant Mouse Licpopolysaccharide Induced CXC Chemokine (CXCL5, 70 aa variant)20 µg249.00PROD66525Lungkine (CXCL15), mouse, recombinantRecombinant Mouse Lungkine (CXCL15)20 µg249.00PROD66403MC-SF, mouse, recombinantRecombinant Mouse Macrophage Colony Stimulating Factor10 µg199.00PROD66423MCP-2 (CCL8), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL7)10 µg199.00PROD65723MCP-3 (CCL7), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL7)20 µg248.00PROD67340MCP-4 (CCL28), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL7)20 µg248.00PROD67340MCP-5 (CCL28), mouse, recombinantRecombinant Mouse Macrophage Derived Chemokine (CCL28)20 µg248.00PROD67340MCP-6 (CCL28), mouse, recombinantRecombinant Mouse Macrophage Derived Chemokine (CCL28)20 µg248.00PROD67340MCP-6 (CCL28), mouse, recombinantRecombinant Mouse Macr					
PROD65420KC (GRO-alpha, CXCL1), mouse, recombinantRecombinant Mouse Keratinocytic Chemoattractant (GRO-alpha, CXCL1)20 µg199.00PROD66720LIGHT, mouse, recombinantRecombinant Mouse Leptin1mg199.00PROD66730LIX (CXCL5, 70 aa), mouse, recombinantRecombinant Mouse Lipoplysaccharide Induced CXC Chemokine (CXCL5, 70 aa variant)20 µg249.00PROD66525Lux (CXCL5, 30 aa), mouse, recombinantRecombinant Mouse Lipoplysaccharide Induced CXC Chemokine (CXCL5, 93 aa variant)20 µg249.00PROD66420MC-SF, mouse, recombinantRecombinant Mouse Lupoplysaccharide Induced CXC Chemokine (CXCL5, 93 aa variant)20 µg249.00PROD66430MC-F1 (JE, CCL2), mouse, recombinantRecombinant Mouse Macrophage Colony Stimulating Factor10 µg199.00PROD66725MCP-3 (CCL1), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL3)20 µg249.00PROD66725MCP-3 (CCL2), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL3)20 µg249.00PROD67940MDC (CCL22), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 5 (CCL12)20 µg249.00PROD67940MDC (CCL22), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 5 (CCL12)20 µg249.00PROD67940MDC (CCL22), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 5 (CCL12)20 µg249.00PROD67940MDC (CCL22), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 5 (CCL12)20 µg249.00PROD67940MEC (CCL23), mous					
PROD68230Leght, mouse, recombinantRecombinant Mouse LippinThe function of the section of the secti					
PROD66720LLGHT, mouse, recombinantRecombinant Mouse LLGHT20 µg249.00PROD66519LIX (CXCL5, 70 au), mouse, recombinantRecombinant Mouse Lipopolysaccharide Induced CXC Chemokine (CXCL5, 70 au variant)20 µg249.00PROD66520LIX (CXCL5, 30 au), mouse, recombinantRecombinant Mouse Lipopolysaccharide Induced CXC Chemokine (CXCL5, 93 au variant)20 µg249.00PROD66403MrCSF, mouse, recombinantRecombinant Mouse Marcophage Colory Stimulating Factor10 µg199.00PROD66403MCP-1 (LE, CCL2), mouse, recombinantRecombinant Mouse Marcophage Colory Stimulating Factor10 µg199.00PROD65723MCP-2 (CCL6), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL7)10 µg199.00PROD65725MCP-5 (CCL12), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL7)20 µg249.00PROD65726MCP-5 (CCL2), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL12)20 µg249.00PROD65740MEC (CCL2), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL12)20 µg249.00PROD65811MIG (CXCL9), mouse, recombinantRecombinant Mouse Marcophage Inflammatory Protein 3 (CCL28)20 µg249.00PROD65831MIP-1 atpla (CCL3), mouse, recombinantRecombinant Mouse Marcophage Inflammatory Protein 1-atpha (CCL3)20 µg249.00PROD65831MIP-1 atpla (CCL3), mouse, recombinantRecombinant Mouse Marcophage Inflammatory Protein 1-atpha (CCL3)20 µg249.00PROD65834MIP-1 atpla (CCL3), mouse,					
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PROD60442M-CSF, mouse, recombinantRecombinant Mouse Macrophage Colony Stimulating Factor10 µg199.00PROD64030MCP-1 (JE, GCL2), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein (JE, CCL2)20 µg249.00PROD65722MCP-3 (CCL7), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL7)10 µg199.00PROD65725MCP-3 (CCL12), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL7)20 µg249.00PROD67910MDC (CCL22), mouse, recombinantRecombinant Mouse Macrophage Derived Chemokine (CCL2)20 µg249.00PROD65734MEC (SCL12), mouse, recombinantRecombinant Mouse Macrophage Derived Chemokine (CCL2)20 µg249.00PROD65831MIG (CCL29), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)20 µg199.00PROD65832MIP-1 alpha (CCL3), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)10 µg199.00PROD65842MIP-1 beta (CCL4), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)20 µg249.00PROD65842MIP-1 beta (CCL4), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)20 µg199.00PROD65844MIP-1 beta (CCL4), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-gamma20 µg249.00PROD65857MIP-3 beta (CCL19), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-ganta20 µg249.00PROD65877MIP-3 beta (CCL4), mo					
PROD65722MCP-2 (CCL8), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 2 (CCL8)20 µg249.00PROD65723MCP-3 (CCL7), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL7)10 µg199.00PROD6730MDC (CCL22), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 5 (CCL12)20 µg249.00PROD67310MDC (CCL22), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 5 (CCL12)20 µg249.00PROD65833MIP-1 alpha (CCL3), mouse, recombinantRecombinant Mouse Mucroaphage Derived Chemokine (CCL28)20 µg249.00PROD65833MIP-1 alpha (CCL3), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)10 µg199.00PROD65844MIP-1 alpha (CCL4), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-bat (CCL4)10 µg199.00PROD658450MIP-2 (GR0-beta, CXCL2), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-garma20 µg249.00PROD65850MIP-3 alpha (CCL20), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 2 (CXCL2)20 µg249.00PROD65850MIP-3 alpha (CCL20), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 µg249.00PROD65850MIP-3 alpha (CCL20), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 µg249.00PROD65850Neuropoietin (NP), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 µg249.00 <td>PROD60442</td> <td>M-CSF, mouse, recombinant</td> <td>Recombinant Mouse Macrophage Colony Stimulating Factor</td> <td>10 µg</td> <td>199.00</td>	PROD60442	M-CSF, mouse, recombinant	Recombinant Mouse Macrophage Colony Stimulating Factor	10 µg	199.00
PROD65723MCP-3 (CCL7), mouse, recombinantRecombinant Mouse Monocyte Chemotactic Protein 3 (CCL7)10 µg199.00PROD65725MCP-5 (CCL12), mouse, recombinantRecombinant Mouse Macrophage Drived Chemotactic Protein 5 (CCL12)20 µg249.00PROD67940MEC (CCL28), mouse, recombinantRecombinant Mouse Macrophage Drived Chemokine (CCL22)20 µg249.00PROD65811MIG (CXCL9), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)20 µg249.00PROD65823MIP-1 alpha (CCL3), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)10 µg199.00PROD65824MIP-1 beta (CCL4), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)10 µg199.00PROD65825MIP-1 alpha (CCL2), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)20 µg249.00PROD65826MIP-1 alpha (CCL2), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL2)20 µg249.00PROD65866MIP-3 alpha (CCL2), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 2 (CXCL2)20 µg249.00PROD65870MIP-3 blata (CCL20), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 µg249.00PROD65880MIP-3 alpha (CCL20), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 µg249.00PROD65880Neuropoietin (NP), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20				10 µg	
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PROD67940MEC (CCL28), mouse, recombinantRecombinant Mouse Mucosae-Åssociated Epithelial Chemokine (CCL28)20 µg249.00PROD65811MIG (CXCL9), mouse, recombinantRecombinant Mouse Macrophage Inflarmatory Protein 1-alpha (CCL3)20 µg199.00PROD65822MIP-1 beta (CCL4), mouse, recombinantRecombinant Mouse Macrophage Inflarmatory Protein 1-alpha (CCL3)10 µg199.00PROD65822MIP-1 beta (CCL4), mouse, recombinantRecombinant Mouse Macrophage Inflarmatory Protein 1-beta (CCL4)10 µg199.00PROD65844MIP-1 garma (CCL2)/10, mouse, recombinantRecombinant Mouse Macrophage Inflarmatory Protein 1-garma20 µg249.00PROD65845MIP-3 alpha (CCL2), mouse, recombinantRecombinant Mouse Macrophage Inflarmatory Protein 3-alpha (CCL20)20 µg249.00PROD65866MIP-3 alpha (CCL20), mouse, recombinantRecombinant Mouse Macrophage Inflarmatory Protein 3-alpha (CCL20)20 µg249.00PROD65877MIP-3 beta (CCL19), mouse, recombinantRecombinant Mouse Macrophage Inflarmatory Protein 3-alpha (CCL20)20 µg249.00PROD65809Neuropoiettin (NP), mouse, recombinantRecombinant Mouse Macrophage Inflarmatory Protein 3-alpha (CCL19)20 µg249.00PROD6522PDGF-BB, mouse, recombinantRecombinant Mouse Nacrophage Inflarmatory Protein 3-alpha (CCL20)20 µg249.00PROD66322PDGF-BB, mouse, recombinantRecombinant Mouse Parephin20 µg249.00PROD66320Persephin, mouse, recombinantRecombinant Mouse Protein 1-alpha (CCL19)10 µg249.00PROD66322PLGF-2,	PROD65725	MCP-5 (CCL12), mouse, recombinant	Recombinant Mouse Monocyte Chemotactic Protein 5 (CCL12)	20 µg	249.00
PROD65811MIG (CXCL9), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)20 µg199.00PROD65833MIP-1 alpha (CCL3), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)10 µg199.00PROD65844MIP-1 gamma (CCL9/10), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL4)10 µg199.00PROD65844MIP-1 gamma (CCL9/10), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-gamma20 µg249.00PROD65845MIP-2 (GRO-beta, CXCL2), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-gamma20 µg249.00PROD658677MIP-3 beta (CCL19), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 µg249.00PROD65877MIP-3 beta (CCL19), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-beta (CCL19)20 µg249.00PROD65890Neuropoiettin (NP), mouse, recombinantRecombinant Mouse Neurophage Inflammatory Protein 3-beta (CCL19)20 µg249.00PROD66322PDGF-BB, mouse, recombinantRecombinant Mouse Neuropoiettin (NP, NPO)25 µg249.00PROD66320Persephin, mouse, recombinantRecombinant Mouse Protein Growth Factor 2 (E. coli-derived)10 µg199.00PROD66320PLGF-2, mouse, recombinantRecombinant Mouse Protein Growth Factor 2 (E. coli-derived)10 µg249.00PROD664130RANTES (CCL5), mouse, recombinantRecombinant Mouse Protein Growth Factor 2 (E. coli-derived)20 µg199.00					
PROD65833MIP-1 alpha (CCL3), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)10 µg199.00PROD65822MIP-1 beta (CCL4), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-beta (CCL4)10 µg199.00PROD65844MIP-1 gamma (CCL9/10), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-beta (CCL4)10 µg199.00PROD65844MIP-2 (GRO-beta, CXCL2), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-gamma20 µg249.00PROD65866MIP-3 alpha (CCL20), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 µg249.00PROD65877MIP-3 beta (CCL19), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 µg249.00PROD65877MIP-3 beta (CCL19), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 µg249.00PROD65807NOGGIN, mouse, recombinantRecombinant Mouse Nacrophage Inflammatory Protein 3-beta (CCL19)20 µg249.00PROD65320PDGF-BB, mouse, recombinantRecombinant Mouse Platelet Derived Growth Factor BB10 µg199.00PROD66320Persephin, mouse, recombinantRecombinant Mouse Placenta Growth Factor 2 (E. coli-derived)10 µg249.00PROD66335Prolactin, mouse, recombinantRecombinant Mouse Protein20 µg249.00PROD66320Persephin, mouse, recombinantRecombinant Mouse Protein20 µg249.00PROD66350Prolactin, mouse, recombinantRecom					
PROD65844MIP-1 gamma (CCL9/10), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 1-gamma20 μg249.00PROD65430MIP-2 (GRO-beta, CXCL2), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 2 (CXCL2)20 μg199.00PROD65876MIP-3 alpha (CCL20), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 μg249.00PROD65877MIP-3 beta (CCL19), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 μg249.00PROD65880Neuropoietin (NP), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-beta (CCL19)20 μg249.00PROD65820POGF-BB, mouse, recombinantRecombinant Mouse Nacrophage Inflammatory Protein 3-beta (CCL19)20 μg249.00PROD66322PDGF-BB, mouse, recombinantRecombinant Mouse Neuropoietin (NP, NPO)25 μg249.00PROD66322PDGF-BB, mouse, recombinantRecombinant Mouse Platelet Derived Growth Factor 2 B10 μg199.00PROD66322PLGF-2, mouse, recombinantRecombinant Mouse Placenta Growth Factor 2 (E. coli-derived)10 μg249.00PROD66323Prolef-12, mouse, recombinantRecombinant Mouse Placenta Growth Factor 2 (E. coli-derived)10 μg249.00PROD664130RANTES (CCL5), mouse, recombinantRecombinant Mouse RANTES (CCL5)20 μg199.00PROD66668RELM-alpha, mouse, recombinantRecombinant Mouse Resistin-like Molecule alpha25 μg249.00PROD66668RELM-beta, mouse, recombinantRecombinant Mouse Resist	PROD65833	MIP-1 alpha (CCL3), mouse, recombinant	Recombinant Mouse Macrophage Inflammatory Protein 1-alpha (CCL3)	10 µg	199.00
PROD65430MIP-2 (GRO-beta, CXCL2), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 2 (CXCL2)20 μg199.00PROD65866MIP-3 alpha (CCL20), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 μg249.00PROD65877MIP-3 beta (CCL19), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 μg249.00PROD65877MIP-3 beta (CCL19), mouse, recombinantRecombinant Mouse Macrophage Inflammatory Protein 3-alpha (CCL20)20 μg249.00PROD65877NOGGIN, mouse, recombinantRecombinant Mouse Neuropoietin (NP, NPO)25 μg249.00PROD65302PDGF-BB, mouse, recombinantRecombinant Mouse NOGGIN20 μg249.00PROD66320Persephin, mouse, recombinantRecombinant Mouse Platelet Derived Growth Factor BB10 μg199.00PROD66320Persephin, mouse, recombinantRecombinant Mouse Platenta Growth Factor 2 (E. coli-derived)10 μg249.00PROD66320Persephin, mouse, recombinantRecombinant Mouse Platenta Growth Factor 2 (E. coli-derived)10 μg249.00PROD66335Prolactin, mouse, recombinantRecombinant Mouse Platenta Growth Factor 2 (E. coli-derived)10 μg29.00PROD664130RANTES (CCL5), mouse, recombinantRecombinant Mouse RANTES (CCL5)20 μg199.00PROD66660RELM-beta, mouse, recombinantRecombinant Mouse Resistin-like Molecule alpha25 μg29.00PROD66668RELM-beta, mouse, recombinantRecombinant Mouse Resistin-like Molecule beta25 μg29.					
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PROD67350NOGGIN, mouse, recombinantRecombinant Mouse NOGGIN20 μg249.00PROD63022PDGF-BR, mouse, recombinantRecombinant Mouse Platelet Derived Growth Factor BB10 μg199.00PROD66320Persephin, mouse, recombinantRecombinant Mouse Persephin20 μg249.00PROD66320Persephin, mouse, recombinant (E. coli)Recombinant Mouse Persephin20 μg249.00PROD66320Persephin, mouse, recombinant (E. coli)Recombinant Mouse Persephin20 μg249.00PROD66335Prolactin, mouse, recombinantRecombinant Mouse Placenta Growth Factor 2 (E. coli-derived)10 μg249.00PROD66430RANTES (CCL5), mouse, recombinantRecombinant Mouse Prolactin50 μg199.00PROD66660RELM-alpha, mouse, recombinantRecombinant Mouse Resistin-like Molecule alpha22 μg199.00PROD66668RELM-beta, mouse, recombinantRecombinant Mouse Resistin-like Molecule beta25 μg249.00PROD66668RELM-gamma, mouse, recombinantRecombinant Mouse Resistin-like Molecule gamma25 μg199.00					
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PROD66022 PLGF-2, mouse, recombinant (E. coli) Recombinant Mouse Placenta Growth Factor 2 (E. coli-derived) 10 μg 249.00 PROD60035 Prolactin, mouse, recombinant Recombinant Mouse Prolactin 50 μg 199.00 PROD64130 RANTES (CCL5), mouse, recombinant Recombinant Mouse RANTES (CCL5) 20 μg 199.00 PROD66666 RELM-alpha, mouse, recombinant Recombinant Mouse Resistin-like Molecule alpha 25 μg 199.00 PROD666668 RELM-beta, mouse, recombinant Recombinant Mouse Resistin-like Molecule beta 25 μg 249.00 PROD666668 RELM-gamma, mouse, recombinant Recombinant Mouse Resistin-like Molecule gamma 25 μg 249.00	PROD63022	PDGF-BB, mouse, recombinant	Recombinant Mouse Platelet Derived Growth Factor BB	10 µg	199.00
PROD660035 Prolactin, mouse, recombinant Recombinant Mouse Prolactin 50 μg 199.00 PROD64130 RANTES (CCL5), mouse, recombinant Recombinant Mouse RANTES (CCL5) 20 μg 199.00 PROD66660 RELM-alpha, mouse, recombinant Recombinant Mouse Resistin-like Molecule alpha 25 μg 199.00 PROD666668 RELM-beta, mouse, recombinant Recombinant Mouse Resistin-like Molecule beta 25 μg 249.00 PROD666668 RELM-gamma, mouse, recombinant Recombinant Mouse Resistin-like Molecule gamma 25 μg 199.00					
PROD64130 RANTES (CCL5), mouse, recombinant Recombinant Mouse RANTES (CCL5) 20 μg 199.00 PROD66600 RELM-alpha, mouse, recombinant Recombinant Mouse Resistin-like Molecule alpha 25 μg 199.00 PROD66668 RELM-beta, mouse, recombinant Recombinant Mouse Resistin-like Molecule beta 25 μg 249.00 PROD66668 RELM-gamma, mouse, recombinant Recombinant Mouse Resistin-like Molecule beta 25 μg 249.00					
PROD66665RELM-beta, mouse, recombinantRecombinant Mouse Resistin-like Molecule beta25 μg249.00PROD66668RELM-gamma, mouse, recombinantRecombinant Mouse Resistin-like Molecule gamma25 μg199.00	PROD64130	RANTES (CCL5), mouse, recombinant	Recombinant Mouse RANTES (CCL5)	20 µg	199.00
PROD66668 RELM-gamma, mouse, recombinant Recombinant Mouse Resistin-like Molecule gamma 25 µg 199.00					

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MOUSE RECOMBINANT (Cont'd)

Product Number	Product Name	Description	Pkg Size	Price
PROD60058	sCD105 (Endoglin), mouse, recombinant (Sf9)	Recombinant Mouse soluble CD105 (Endoglin, Sf9-insect cell-derived)	25 µg	\$399.00
PROD63100	sCD40 Ligand, mouse, recombinant	Recombinant Mouse soluble CD40 Ligand (TNFSF5, TRAP, CD154, gp39)	25 µg	199.00
PROD63120	SCF, mouse, recombinant	Recombinant Mouse Stem Cell Factor	10 µg	199.00
PROD67220	SDF-1 alpha (CXCL12), mouse, recombinant	Recombinant Mouse Stromal Cell-Derived Factor 1-beta (CXCL12)	10 µg	199.00
PROD67222	SDF-1 beta (CXCL12), mouse, recombinant	Recombinant Mouse Stromal Cell-Derived Factor 1-alpha (CXCL12)	10 µg	199.00
PROD67355	sLYVE-1, mouse, recombinant (Sf9)	Recombinant Mouse soluble Lymphatic Vessel Endothelial Hyaluronan Receptor 1 (Sf9 insect cell-derived)	25 µg	399.00
PROD63200	sRANKL, mouse, recombinant	Recombinant Mouse soluble Receptor Activator of NF-Kappa B	10 µg	199.00
PROD68025	sTIE-1 / Fc Chimera, mouse, recombinant (Sf9)	Recombinant Mouse soluble TIE-1/Fc Chimera (Sf9-insect cell-derived)	20 µg	199.00
PROD68028	sTIE-2 / Fc Chimera, mouse, recombinant (Sf9)	Recombinant Mouse soluble TIE-2/Fc Chimera (Sf9-insect cell-derived)	20 µg	199.00
PROD63720	TNF-alpha, mouse, recombinant (E. coli)	Recombinant Mouse Tumor Necrosis Factor alpha (E. coli-derived)	20 µg	199.00
PROD63722	TNF-alpha, mouse, recombinant (S. lividans)	Recombinant Mouse Tumor Necrosis Factor alpha (S. lividans-derived)	20 µg	199.00
PROD65112	TPO, mouse, recombinant	Recombinant Mouse Thrombopoietin	10 µg	199.00
PROD63600	TRAIL (Apo2L), mouse, recombinant	Recombinant Mouse Tumor Necrosis Factor-Related Apoptosis Inducing Ligand	50 µg	249.00
PROD64409	VEGF-121, mouse, recombinant	Recombinant Murine Vascular Endothelial Cell Growth Factor 121	10 µg	249.00
PROD64408	VEGF-164, mouse, recombinant	Recombinant Mouse Vascular Endothelial Growth Factor 164	20 µg	399.00
PROD64410	VEGF-165, mouse, recombinant (E. coli)	Recombinant Mouse Vascular Endothelial Growth Factor 165 (E. coli-derived)	10 µg	199.00
PROD64423	VEGF-165, mouse, recombinant (Sf9)	Recombinant Mouse Vascular Endothelial Growth Factor 165 (Sf9-insect cell-derived)	10 µg	199.00
PROD68330	Visfatin, mouse, recombinant	Recombinant Mouse Visfatin	25 µg	199.00

RAT RECOMBINANT

Product	Product		Pkg	
Number	Name	Description	Size	Price
PROE68250	Apolipoprotein-J, rat, recombinant	Recombinant Rat Apolipoprotein J	10 µg	\$199.00
PROE66210	CNTF, rat, recombinant	Recombinant Rat Ciliary Neurotrophic Factor	25 µg	249.00
PROE60170	EGF, rat, recombinant	Recombinant Rat Epidermal Growth Factor	100 µg	249.00
PROE60240	FGF-2 (FGF-b), rat, recombinant	Recombinant Rat basic Fibroblast Growth Factor (FGF-2)	50 µg	249.00
PROE60390	FGF-9, rat, recombinant	Recombinant Rat Fibroblast Growth Factor 9	10 µg	249.00
PROE67510	Fractalkine (CX3CL1), rat, recombinant	Recombinant Rat Fractalkine (CX3CL1)	20 µg	249.00
PROE66312	GDNF, rat, recombinant	Recombinant Rat Glial Derived Neurotropic Factor	10 µg	249.00
PROE60420	GM-CSF, rat, recombinant	Recombinant Rat Granulocyte/Macrophage Colony Stimulating Factor	10 µg	199.00
PROE65420	GRO-alpha (KC, CXCL1), rat, recombinant	Recombinant Rat Growth Regulated Oncogene alpha (KC, CXCL1)	25 µg	249.00
PROE65430	GRO-beta (MIP-2, CXCL2), rat, recombinant	Recombinant Rat Growth Regulated Oncogene beta (MIP-2, CXCL2)	25 µg	249.00
PROE67335	Growth Hormone (GH), rat, recombinant	Recombinant Rat Growth Hormone (GH)	500 µg	249.00
PROE60730	IFN-gamma, rat, recombinant	Recombinant Rat Interferon gamma	100 µg	199.00
PROE60840	IGF-I, rat, recombinant	Recombinant Rat Insulin Like Growth Factor I	20 µg	199.00
PROE61112	IL-1 alpha, rat, recombinant	Recombinant Rat Interleukin 1-alpha	10 µg	199.00
PROE61120	IL-1 beta, rat, recombinant	Recombinant Rat Interleukin 1-beta	10 µg	199.00
PROE62012	IL-10, rat, recombinant	Recombinant Rat Interleukin 10	10 µg	199.00
PROE62210	IL-12, rat, recombinant	Recombinant Rat Interleukin 12	10 µg	199.00
PROE62314	IL-13 (109 aa), rat, recombinant	Recombinant Rat Interleukin 13 (109 aa variant)	10 µg	249.00
PROE62312	IL-13 (113 aa), rat, recombinant	Recombinant Rat Interleukin 13 (113 aa variant)	10 µg	249.00
PROE62510	IL-15, rat, recombinant	Recombinant Rat Interleukin 15	10 µg	199.00
PROE62710	IL-17, rat, recombinant	Recombinant Rat Interleukin 17A	25 µg	249.00
PROE62715	IL-17E, rat, recombinant	Recombinant Rat Interleukin 17E	25 µg	249.00
PROE62810	IL-18, rat, recombinant	Recombinant Rat Interleukin 18	25 µg	199.00
PROE61220 PROE61342	IL-2, rat, recombinant IL-3 beta, rat, recombinant	Recombinant Rat Interleukin 2 Recombinant Rat Interleukin 3-beta	20 µg	199.00 249.00
PROE61342 PROE61340	IL-3 beta, rat, recombinant	Recombinant Rat Interleukin 3	20 μg 10 μg	249.00
PROE61340	IL-3, rat, recombinant	Recombinant Rat Interleukin 3	10 µg	199.00
PROE61420 PROE61520	IL-4, rat, recombinant	Recombinant Rat Interleukin 4 Recombinant Rat Interleukin 5	10 µg	199.00
PROE61630	IL-6, rat, recombinant	Recombinant Rat Interleukin 5 Recombinant Rat Interleukin 6	10 µg	199.00
PROE61710	IL-7, rat, recombinant	Recombinant Rat Interleukin 7	10 µg	249.00
PROE65340	IP-10 (CXCL10), rat, recombinant	Recombinant Rat IFN Inducible Protein 10 (CXCL10)	25 µg	249.00
PROE68230	Leptin, rat, recombinant	Recombinant Rat Leptin	1 mg	249.00
PROE60442	M-CSF, rat, recombinant	Recombinant Rat Macrophage Colony Stimulating Factor	10 µg	249.00
PROE64030	MCP-1 (CCL2), rat, recombinant	Recombinant Rat Monocyte Chemoattractant Protein 1 (CCL2)	10 µg	199.00
PROE65833	MIP-1 alpha (CCL3), rat, recombinant	Recombinant Rat Macrophage Inflammatory Protein 1-alpha (CCL3)	20 µg	199.00
PROE65822	MIP-1 beta (CCL4), rat, recombinant	Recombinant Rat Macrophage Inflammatory Protein 1-beta (CCL4)	20 µg	249.00
PROE60035	Prolactin, rat, recombinant	Recombinant Rat Prolactin	μg	199.00
PROE64130	RANTES (CCL5), rat, recombinant	Recombinant Rat RANTES (CCL5)	20 µg	249.00
PROE66670	Resistin, rat, recombinant	Recombinant Rat Resistin	10 µg	199.00
PROE63120	SCF, rat, recombinant	Recombinant Rat Stem Cell Factor	10 µg	199.00
PROE67220	SDF-1 alpha (CXCL12), rat, recombinant	Recombinant Rat Stromal Cell Derived Factor 1-alpha (CXCL12)	10 µg	249.00
PROE67320	SDF-1 beta (CXCL12), rat, recombinant	Recombinant Rat Stromal Cell Derived Factor 1-beta (CXCL12)	10 µg	249.00
PROE63200	sRANKL, rat, recombinant	Recombinant Rat soluble Receptor Activator of NF-Kappa-B Ligand	10 µg	249.00
PROE63720	TNF-alpha, rat, recombinant	Recombinant Rat Tumor Necrosis Factor alpha	20 µg	199.00
PROE64411	VEGF, rat, recombinant	Recombinant Rat Vascular Endothelial Growth Factor	10 µg	199.00
PROE64412	VEGF-C, rat, recombinant	Recombinant Rat Vascular Endothelial Growth Factor C	10 µg	199.00
PROE64415	VEGF-C152S, rat, recombinant	Recombinant Rat Vascular Endothelial Growth Factor C (152 aa variant)	20 µg	199.00

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Product Number	Description	Pkg Size	Price		
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ENZ28010100	Endocannabinoid Library (100 μL/well), 60 compounds with defined, putative, potential or speculative, activity at cannabinoid (CB) receptors and TRPV channels	Pack	2,010.60		
ENZ28010500	Endocannabinoid Library (500 µL/well), 60 compounds with defined, putative, potential or speculative, activity at cannabinoid (CB) receptors and TRPV channels	Pack	4,013.10		
ENZ28020100	Nuclear Receptor Ligand Library (100 $\mu\text{L/well}),$ 76 compounds with defined and potential activity at nuclear receptors	Pack	1,737.90		
ENZ28020500	Nuclear Receptor Ligand Library (500 μ L/well), 76 compounds with defined and potential activity at nuclear receptors	Pack	5,649.30		
ENZ28030100	Fatty Acid Library (100 μ L/well), 68 fatty acids of various chain lengths and saturation	Pack	836.10		
ENZ28030500	Fatty Acid Library (500 μ L/well), 68 fatty acids of various chain lengths and saturation	Pack	1,737.90		
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ENA28100500	Neurotransmitter Library (500 µL/well), 700 neurotransmitters on 10 plates according to receptor class	Pack	18,918.00		
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ENZ28120500	Dopaminergic Ligand Library (500 μL/well)	Pack	2,696.40		
ENZ28130500	Serotonergic Ligand Library (500 µL/well)	Pack	2,952.90		
ENZ28140500	Opioid Ligand Library (500 μL/well)	Pack	4,512.60		
ENZ28150500	Cholinergic Ligand Library (500 µL/well)	Pack	2,696.40		
ENZ28160500	Histaminergic Ligand Library (500 µL/well)	Pack	1,152.00		
ENZ28170500	lonotropic Glutamatergic Ligand Library (500 μL/well)	Pack	1,593.00		
ENZ28250500	Orphan Ligand Library (500 μ L/well), 84 compounds with biological activity but no known receptor	Pack	2,010.60		
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ENZ28320500	Kinase Inhibitor Library (500 µL/well), 80 kinase inhibitors	Pack	5,966.10		
ENZ28330100	Protease Inhibitor Library (100 µL/well), 53 protease inhibitors	Pack	2,051.10		
ENZ28330500	Protease Inhibitor Library (500 µL/well), 53 protease inhibitors	Pack	6,850.80		
ENZ28340100	Phosphatase Inhibitor Library (100 μ L/well), 33 phosphatase inhibitors	Pack	1,245.60		
ENZ28340500	Phosphatase Inhibitor Library (500 μ L/well), 33 phosphatase inhibitors	Pack	3,380.40		
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ENZ28350500	REDOX library (500 µL/well)	Pack	1,820.70		
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LIPIDS



Matreya Inc. is committed to the development and manufacture of lipids and biochemicals of the highest quality and value to our customers.

MATREYA SPHINGOLIPIDS AND GLYCOSPHINGOLIPIDS

• 98+% pure by TLC

Product Number	Description	Pkg Size	Price
MT1802*	C18-Sphingosine (synthetic)	25 mg	\$84.40
MT1304*	D-erythro-sphingosine (semi-synthetic; bovine)	10 mg	163.20
MT1901*	D-erythro-C2-Ceramide (synthetic)	10 mg	123.80
MT1900*	D-erythro-C6-Ceramide (synthetic)	10 mg	123.80
MT1903*	D-erythro-C8-Ceramide (synthetic)	10 mg	123.80
MT1056	Ceramide (natural – bovine)	25 mg	123.80
MT1050	Cerebrosides (natural – bovine)	50 mg	106.90
MT1051	Sphingomyelin (natural – bovine)	25 mg	98.50
MT1049	Sulfatides (natural – bovine)	50 mg	411.70
MT1918	N-Docosanoyl-D-erythro-Sphingosyl- phosphorlycholine	0.5 mg	301.50
MT1065	Mixed Gangliosides (natural – bovine)	25 mg	211.50
MT1061	Monosialoganglioside (GM1) (natural – bovine)	5 mg	271.10
+ 00 0/ 1	71.0.00		

* 98+% pure by TLC, GC

MATREYA GLYCEROPHOSPHOLIPIDS

• 98+% pure by TLC					
Product Number	Description	Pkg Size	Price		
MT1044	Lecithin	50mg/mL, 1mL	\$82.30		
MT1046	lyso-Lecithin	50mg	101.30		
MT1047	Phosphatidylserine	50mg/mL, 1mL	263.70		
MT1048	Phosphatidylinositol (Na ⁺ salt)	10mg/mL, 1mL	197.60		
MT1045	Phosphatidylethanolamine	50mg/mL, 1mL	237.80		
MT1052*	Phosphoglycerides Kit	1 each	671.60		

* 98+% pure

MATREYA SATURATED FATTY ACIDS & METHYL ESTERS

• 99% pure by GC

Product		Pkg	
Number	Description	Size	Price
MT1010	C14 Tetradecanoic (Myristic) Acid	1 g	49.20
MT1011	C14 Methyl Tetradecanoate	1 g	49.20
MT1014	C16 Hexadecanoic (Palmitic) Acid	1 g	42.20
MT1015	C16 Methyl Hexadecanoate	1 g	42.20
MT1018	C17 Heptadecanoic (Margaric) Acid	1 g	185.70
MT1019	C17 Methyl Heptadecanoate	1 g	185.70
MT1020	C18 Octadecanoic (Stearic) Acid	1 g	42.20
MT1021	C18 Methyl Octadecanoate	1 g	42.20
MT1035	C22 Docosanoic (Behenic) Acid	500 mg	84.40
MT1036	C22 Methyl Docosanoate	500 mg	84.40
MT1186	C23 Tricosanoic Acid	100 mg	98.50
MT1187	C23 Methyl Tricosanoate	100 mg	98.50

MATREYA UNSATURATED FATTY ACIDS AND METHYL ESTERS

• 99+% pure by TLC, GC

Product Number	Description	Pkg Size	Price
MT1167	Eicosapentaenoic acid	25mg	\$148.60
MT1136	Docosahexaenoic acid	100mg	135.10
MT1024	Linoleic acid	1g	57.70
MT1025	Methyl linoleate	1g	57.70
MT1022	Oleic acid	1g	57.70

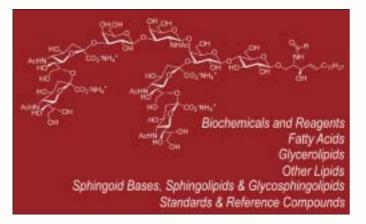
MATREYA TOCOPHEROLS

• 95% pure by TLC, 98% pure by GC

Product Number	Description	Pkg Size	Price
MT1072	rac-alpha-Tocopherol	50mg/mL, 1mL	\$161.00
MT1071	rac-beta-Tocopherol	50mg/mL, 1mL	241.50
MT1073*	rac-gamma-Tocopherol	50mg/mL, 1mL	241.50
MT1074	rac-5,7-Dimethyltocol	50mg/mL, 1mL	241.50
MT1790	(+)-delta-Tocopherol	50mg/mL, 1mL	217.70
MT1797	Tocol	50mg/mL, 1mL	226.80

* 95% pure by TLC, 97% pure by GC

MATREYA SYNTHETIC PURE CONJUGATED LINOLEIC ACID ISOMERS (CLA) • 98+% pure by TLC, GC Product Pkg Number Size Description Price MT1245 9-cis, 11-trans-Octadecadienoic Acid 25 mg \$133.70 MT1255 Methyl 9-cis, 11-trans-Octadecadienoate 25 mg 133.70 MT1181 9-trans, 11-trans-Octadecadienoic Acid 25 mg 133.70 MT1257 Methyl 9-trans, 11-trans-Octadecadienoate 25 mg 133.70 MT1249 10-trans, 12-cis-Octadecadienoic Acid 25 mg 133.70 MT1254 Methyl 10-trans, 12-cis-Octadecadienoate 25 mg 133.70





USB offers the convenience reagents you need to operate your lab efficiently. While these reagents are made for a variety of applications, they all come in easy-to-use formats, and are USB Ultrapure biochemicals. If your convenience reagent isn't listed in this section, or the USB catalogue, USB would be happy to make it for you as part of their **customerization** program.

USB's customerization service is their ability to customize products from special pack sizes of biochemicals, to a particular concentration of a modifying enzyme or a specific buffer formulation. They have a proven record in this area to work with customers and respond to their needs. Please feel free call us at 1-888-593-5969 or visit the USB website at www.usb.affymetrix.com/customerization.asp if you would like to investigate customizing one of the great USB products. We are here to help you.

GRADE DEFINITIONS

A Few Notes About USB's Products

To simplify grade selection for customers the following grade definitions are provided. USB has selected grade names which are self explanatory, as well as those which reflect various industry standards. If any changes are noticed in a familiar grade designation for a given chemical, it is a result of a change to the grade definition rather than a change in the quality of the chemical.

USB Ultrapures are especially selected Biochemicals and reagents of high quality, suitable for use in numerous biotechnology applications. These reagents meet stringent requirements, such as adherence to compendial references where applicable, have ultra-low levels of trace metal contamination and low levels of DNase, RNase, Protease and endotoxins where applicable. *(UP)*

ACS Reagent Grade: Meets the limits of purity for inorganic chemicals as established by the American Chemical Society. (ACS)

CP Grade (Chemically Pure): Meets the requirements of the Food Chemicals Codex, but not intended for food use. *(CP)*

USBioAnalyzed: Meets USP or NF chemical testing requirements but is not sold as USP or NF Grade; USP and NF Grades (United States Pharmacopeia and National Formulary) must meet the requirements of those compendia and will fall under this category. **(USBA)**

USP Grade: Meets the requirements of the U.S. Pharmacopeia

NF Grade: Meets the requirements of the National Formulary

MB Grade (Molecular Biology): Applies to products that are suitable for a variety of Molecular Biology applications including those which require ultra-low levels of trace metal contamination, and low levels of DNase's, RNase's and Protease. These products are also functionally tested when applicable. *(MB)*

Reagent Grade: Suitable for use in general laboratory applications; meets in-house established limits in the absence of any compendial reference for the given compound. In -house established limits and their associated test methods are in many cases derived from common compendial methods such as USP, NF, ACS, etc. (*RG*)

High Purity Grade: Generally meets more stringent requirements than Reagent Grade products, such as higher assay limits or lower levels of trace contaminants. When available, this grade is more suitable as a reference material than the Reagent Grade. *(HPG)*

USB BLOTTING REAGENTS

Product Number	Description	Grade	Pkg Size*	Price
UB75354S1	Blocking Buffer, 5X Solution	UP, MB	600 mL	\$96.70
UB70468S1	Denhardt's Solution, 50X	UP, MB	50 mL	72.70
UB19629S2	SSC, 20X Solution	UP, MB	500mL	30.40
UB19629S3	SSC, 20X Solution	UP, MB	1L	47.00
UB19629S4	SSC, 20X Solution	UP, MB	5L	118.80
UB75890S1	SSPE, 20X Solution	UP, MB	100 mL	33.50
UB75890S2	SSPE, 20X Solution	UP, MB	1L	51.60
UB75890S3	SSPE, 20X Solution	UP, MB	5L	149.00

USB PURIFICATION SOLUTIONS

Product Number	Description	Grade	Pkg Size*	Price
UB77510S1	Phenol, pH 4.5, Equilibrated	UP, MB	100 mL	\$30.40
UB75829S1	Phenol, pH 8.0, Equilibrated	UP, MB	100 mL	31.90
UB75831S1	Phenol: Chloroform: Isoamyl Alcohol (25:24:1)	UP, MB	100 mL	39.10

* Please Note: Various package sizes are available, including custom and bulk. Please call to inquire.



Customerization from USB... visit their web site at <u>www.usb.affymetrix.com/customerization.asp</u> or call ^{MJS} BioLynx for assistance.



Products are for Laboratory Research Use Only.

CONVENIENCE REAGENTS

USB BUFFERS

Product			Pkg	
Number	Description	Grade	Size*	Price
UB12656S2	CAPS	UP	100 g	\$42.70
UB16924S1	HEPES, 1M Solution, pH 7.3	UP, MB	100 mL	24.90
UB16924S2	HEPES, 1M Solution, pH 7.3	UP, MB	500 mL	62.20
UB16924S3	HEPES, 1M Solution, pH 7.3	UP, MB	1 L	88.40
UB16928S3	HEPES, Sodium Salt	UP	1 kg	537.50
UB17525S4	Imidazole	UP	1 kg	115.80
	MES, Monohydrate	UP	100 g	40.10
UB18886S3	MES, Monohydrate	UP	1 kg	208.50
UB19256S2		UP	100 g	42.70
UB19256S3		UP	1 kg	230.70
UB75889S1	· · · · · ·	UP, MB	100 mL	24.90
	PBS, 10X Solution, pH 7.4	UP, MB	1 L	66.30
	PBS, 10X Solution, pH 7.4	UP, MB	5 L	118.80
	Sodium Phosphate Dibasic	CP	1 kg	73.10
UB75904S1		UP, MB	1 L	49.80
	TAE Buffer, 10X Solution	UP, MB	5 L	118.80
UB74015S1	TAE Buffer, 50X Solution	UP	100 mL	38.70
UB77500S1	TBS with Tween (TBST), 20X Solution	UP, MB	5 L	128.50
UB75892S1	TBS, 20X Solution, pH 7.4	UP, MB	100 mL	24.90
UB75892S2	TBS, 20X Solution, pH 7.4	UP, MB	1 L	85.70
UB75892S3	TBS, 20X Solution, pH 7.4	UP, MB	5 L	121.60
UB75893S2	TE Buffer, 1X Solution	UP, MB	100 mL	24.90
UB75834S1	TE Buffer, 50X Solution	UP, MB	100 mL	19.30
UB75834S2	TE Buffer, 50X Solution	UP, MB	500 mL	49.80
UB22561S3		UP	500 g	172.40
UB22561S4	Tricine	UP	1 kg	257.10
UB75825S1	Tris	UP, MB	500 gm	47.00
UB75825S2		UP, MB	1 kg	85.70
UB75825S3		UP, MB	5 kg	248.80
UB22674S3	Tris	HPG	1 kg	71.90
UB22674S4		HPG	5 kg	212.80
UB22675S3		RG	1 kg	65.00
UB22676S4	Tris Hydrochloride	UP, MB	1 kg	88.50
UB22676S5	Tris Hydrochloride	UP, MB	5 kg	384.50
UB22678S2	Tris, 2M Solution	UP, MB	500 mL	44.20
UB77514S1 UB22637S1	Tris, 2M Solution, pH 7.5 Tris/HCI, 1M Solution,	UP, MB UP, MB	100 mL 100 mL	30.40 19.30
	pH 7.0			
UB22637S3	Tris/HCI, 1M Solution, pH 7.0	UP, MB	1 L	46.70
UB22639S2	Tris/HCI, 1M Solution, pH 7.5	UP, MB	500 mL	31.80
UB22638S2	Tris/HCl, 1M Solution, pH 8.0	UP, MB	500 mL	31.80

Product			Pkg	
Number	Description	Grade	Size*	Price
UB72990S1	DNA Sequencing 6% Gel Mix TBE Formulation	UP, MB	5 bottles	\$84.30
UB75841S1	RapidGel 4% Liquid Acrylamide TBE Formulation DNA Sequencing Gel	UP, MB on	500 mL	71.70
UB75816S1	Ethidium Bromide Drops	UP	5 mL	28.40
UB71949S1	Glycerol Tolerant Gel (GTG) Buffer, 20X Ready-Mixed Powder	UP, MB	6 bottles	102.20
UB75827S1	Glycerol Tolerant Gel (GTG) Buffer, 20X Solution	UP, MB	1 L	81.50
UB75843S1	RapidGel 6% Liquid Acrylamide TBE Formulation DNA Sequencing Gel	UP, MB	500 mL	71.70
UB75844S1	RapidGel 8% Liquid Acrylamide TBE Formulation DNA Sequencing Gel	UP, MB	500 mL	71.70
UB75848S1	RapidGel, 40% Liquid Acrylamide Stock Solution	UP, MB	500 mL	92.40
UB75861S1	RapidGel-XL 6% Liquid Acrylamide TBE Formulation DNA Sequencing Gel	UP, MB	500 mL	87.60
UB75863S1	RapidGel-XL, 40% Liquid Acrylamide Stock Solution	UP, MB	500 mL	260.80
UB70724S1	Stop Solution	UP	1200 μL	46.60
UB70454S1	TBE Buffer, 10X Ready-Mixed Powder	UP, MB	6 x 200 mL	37.30
UB75891S1 UB75891S2	TBE Buffer, 5X Solution TBE Buffer, 5X Solution	UP, MB UP, MB	1 L 5 L	29.00 66.30
UB75894S1	Tris-Glycine (TG) Buffer, 10X Solution	UP, MB	1 L	41.50
UB75894S2	Tris-Glycine (TG) Buffer, 10X Solution	UP, MB	5 L	113.30
UB75895S1	Tris-Glycine-SDS (TGS) Buffer, 10X Solution	UP, MB	1 L	47.00
UB75895S2	Tris-Glycine-SDS (TGS) Buffer, 10X Solution	UP, MB	5 L	121.60

USB GEL ELECTROPHORESIS REAGENTS

 Please Note: Various package sizes are available, including custom and bulk. Please call to inquire.

USB BACTERIAL CULTURE MEDIA

Product Number	Description	Grade	Pkg Size*	Price
UB75851S1	LB Agar, Ready-Made Powder	UP	250g	\$45.60
UB75852S1	LB Broth, Ready-Made Powder	UP	250g	20.70
UB75853S1	Luria Agar, Ready-Made Powder	UP	250g	48.40
UB75854S1	Luria Broth (LB), Ready-Made Powder	UP	250g	19.30
UB75855S1	N2CYM Broth, Ready-Made Powder		250g	30.40
UB75856S1	Terrific Broth, Ready-Made Powder	UP	250g	41.50
UB75857S1	YPD Agar, Ready-Made Powder		250g	44.20
UB75858S1	YDD Broth, Ready-Made Powder		250g	40.10
UB75864S1	2X YT Broth		1kg	83.90

CONVENIENCE REAGENTS

USB STOCK SOLUTIONS

USB STOCK SOLUTIONS					
	Product Number	Description	Grade	Pkg Size*	Price
	UB75901S1	Ammonium Acetate (NH4OAc),5M Solution	UP, MB	100 mL	\$22.20
	UB77507S1	Betaine, 5M Solution	UP, MB	1.5 mL	24.20
	UB70726S1	Dithiothreitol (DTT) 0.1M Solution	UP, MB	150 μL	43.90
	UB75910	DNA Solutions Kit	UP, MB	1 kit	146.50
	UB15694S1	EDTA, 0.5M Solution (Ethylenediamine Tetraacetic Acid)	UP, MB	100 mL	20.70
	UB15694S2	EDTA, 0.5M Solution (Ethylenediamine Tetraacetic Acid)	UP, MB	500 mL	49.80
	UB78641S1	Magnesium Chloride (MgCl) 1.0 ± 0.1M Solution	UP, MB	10 x 1 mL	23.50
	UB78641S2	Magnesium Chloride (MgCl) $1.0 \pm 0.1M$ Solution	UP, MB	100 mL	38.70
	UB75887S2	Manganese Chloride (MnCl) $1.0 \pm 0.1M$ Solution	UP, MB	100 mL	38.70
	UB75898S1	Potassium Acetate (KOAc), 3M Solution, pH 5.5	UP, MB	100 mL	28.20
	UB75898S2	Potassium Acetate (KOAc), 3M Solution, pH 5.5	UP, MB	500 mL	81.90
	UB75896S1	Potassium Chloride (KCI), 2M Solution	UP, MB	100 mL	22.10
	UB76225S1	Proteinase K Solution	MB	100 mg	118.10
	UB75897S1	Sodium Acetate (NaOAc), 3M Solution, pH 5.5	UP, MB	100 mL	22.10
	UB75897S2	Sodium Acetate (NaOAc), 3M Solution, pH 5.5	UP, MB	500 mL	52.50
	UB75888S1	Sodium Chloride (NaCI), 5M Solution	UP, MB	100 mL	19.30
	UB75888S2	Sodium Chloride (NaCI), 5M Solution	UP, MB	500 mL	44.20
	UB77504S1	Sodium Dodecyl Sulfate (SDS), 10% Solution	UP	100 mL	25.30
	UB77504S2	Sodium Dodecyl Sulfate (SDS), 10% Solution	UP	500 mL	52.50
	UB75832S1	Sodium Dodecyl Sulfate (SDS), 20% Solution	UP	100 mL	26.30
	UB75832S2	Sodium Dodecyl Sulfate (SDS), 20% Solution	UP	500 mL	62.20
	UB71786S4	Water, Nuclease-Free	UP, MB	1 L	40.10
	UB71788S2	Water, Nuclease-Free, Endotoxin-Tested	UP, MB	1 L	74.60
	UB71785S1	Water, PCR-Qualified	UP, MB	10 x 1 mL	44.20
	UB71783S4	Water, RNase-Free	UP, MB	1 L	40.10
	UB70783S4	Water, RNase-Free, DEPC Treated	UP, MB	500 mL	47.00
	* Please note, oth	ner package sizes are available, pleas	e inquire.		an

USB AGAROSES

Product			Bka	
Number	Description	Grade	Pkg Size*	Price
UB75817S1	Agarose - Separation ≥ 500 bp	UP, MB	25g	\$55.30
UB75817S2	Agarose - Separation ≥ 500 bp	UP, MB	100g	178.60
UB75817S3	Agarose - Separation ≥ 500 bp	UP, MB	250g	366.90
UB10132S1	Agarose - Hi-Res [™] , Separation ≤ 1000 bp	UP, MB	25g	140.60
UB10132S2	Agarose - Hi-Res [™] , Separation ≤ 1000 bp	UP, MB	100g	298.70
UB10133S1	Agarose - Hi-Res [™] , Separation ≤ 500 bp	UP, MB	25g	140.60
UB10133S2	Agarose - Hi-Res [™] , Separation ≤ 500 bp	UP, MB	100g	298.70
UB32821S1	Agarose - Ultra Low Melt	UP	10g	145.80
UB32821S2	Agarose - Ultra Low Melt	UP	25g	288.70
UB32829S1	Agarose - Low Melt, Separation ≤ 1000 bp	UP, MB	25g	141.50
UB32829S2	Agarose - Low Melt, Separation ≤ 1000 bp	UP, MB	100g	393.80
UB32830S1	Agarose - Low Melt, Separation ≥ 1000 bp	UP, MB	25g	164.80
UB32830S2	Agarose - Low Melt, Separation ≥ 1000 bp	UP, MB	100g	446.20
UB32835S1	Agarose-HEEO	UP	25g	60.10
UB32835S2	Agarose-HEEO	UP	100g	197.60
UB32835S3	Agarose-HEEO	UP	250g	404.20
UB32881S1	Agarose - Finger Printing	UP, MB	100g	116.90
UB32901S1	Agarose - Pulse Field (PFGE)	UP, MB	25g	63.20
UB32901S2	Agarose - Pulse Field (PFGE)	UP, MB	100g	208.60
UB32901S3	Agarose - Pulse Field (PFGE)	UP, MB	250g	405.40
UB32903S1	Agarose - PFGE Plugs	UP, MB	1g	72.90
UB32802S1	Agarose - LE	UP	25g	54.20
UB32802S2	Agarose - LE	UP	100g	152.90
UB32802S3	Agarose - LE	UP	250g	282.90
UB32803S1	Agarose - ME	UP	25g	63.20
UB32803S2	Agarose - ME	UP	100g	156.50
UB32803S3	Agarose - ME	UP	250g	275.90
UB32804S1	Agarose - HE	UP	25g	66.40
UB32804S2	Agarose - HE	UP	100g	183.30
UB32804S3	Agarose - HE	UP	250g	344.20
UB32805S1	Agarose - HGT	UP	25g	96.20
UB32805S3	Agarose - HGT	UP	250g	563.00

* Please note, other package sizes are available, please inquire.

Products are for Laboratory Research Use Only.



www.biolynx.ca

USB ACS GRADE BIOCHEMICALS

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	Product Number	Description	Grade	Pkg Size*	Price
	UB11248S1	Ammonium Chloride	ACS RG	500 g	\$31.80
	UB11252S1	Ammonium Molybdate Tetrahydrate	ACS RG	500 g	118.90
	UB11247S1	Ammonium Phosphate, Dibasic	ACS RG	500 g	52.50
	UB11249S1	Ammonium Phosphate, Monobasic	ACS RG	500 g	49.80
	UB12329S1 UB21614S1	Boric Acid Boric Acid, Sodium Salt	ACS RG ACS RG	500 g 500 g	37.30 16.60
	UB12355S2	Bromocresol Green, Sodium Salt	ACS RG	10 g	45.70
	UB12370S2	Bromophenol Blue, Sodium Salt	UP, ACS RG	10 g	37.30
	UB12374S2	Bromothymol Blue	ACS RG	10 g	27.60
	UB12375S2	Bromothymol Blue, Sodium Salt	ACS RG	10 g	29.50
	UB12531S1 UB13735S1	Calcium Chloride, Dihydrate Citric Acid, Trisodium Salt, Dihydrate	ACS RG UP, USBA	500 g 500 g	54.70 16.60
	UB13839S1	Cupric Sulfate Pentahydrate	ACS RG	500 g	57.90
	UB15699S2	Ethylenediaminetetraacetic Acid, (EDTA) Disodium Salt, Dihydrate	ACS RG	500 g	60.80
	UB12192S1	Ferric Chloride, Hexahydrate	ACS RG	500 g	66.60
	UB12193S1	Ferrous Sulfate, Heptahydrate	ACS RG	500 g	60.80
	UB16371S1	Glycerol	ACS RG	500 mL	56.00
	UB16372S1	Glycine	ACS RG	2.5 kg	59.50
	UB18516S1	Lithium Chloride	ACS RG	500 g	73.40
	UB18641S1	Magnesium Chloride, Hexahydrate	UP, ACS RG	500 g	30.40
	UB18651S1	Magnesium Sulfate, Heptahydrate	ACS RG	500 g	31.80
	UB19150S1	Methyl Orange	ACS RG	25 g	15.90
	UB19515S5	Ninhydrin, Monohydrate	ACS RG	500 g	433.00
	UB20086S2	Phenol Red, Free Acid Phenol Red, Sodium Salt	ACS RG	25 g	37.30
	UB20085S2 UB20075S2	Phenolphthalein	ACS RG USBA ACS RG	10 g 500 g	35.90 50.10
	UB20602S2	· · · · · · · · · · · · · · · · · · ·	ACS RG	500 g	42.90
		Potassium Chloride	UP, ACS RG	500 g	37.30
	UB20633S2	Potassium Iodide	ACS RG	500 g	131.30
	UB20271S1	Potassium Nitrate	ACS RG	500 g	57.90
	UB20274S2	Potassium Phosphate, Dibasic	UP, ACS RG	500 g	59.80
	UB20227S2	Potassium Phosphate, Monobasic	ACS RG	500 g	48.40
	UB20273S1	Potassium Thiocyanate	ACS RG	500 g	85.70
	UB21608S2	Sodium Acetate, Anhydrous		500 g	41.50
	UB21602S1 UB21603S1	Sodium Bicarbonate Sodium Bisulfite	ACS RG ACS RG	500 g 500 g	23.50 35.90
	UB21616S1	Sodium Carbonate, Anhydrous	ACS RG	500 g	44.20
	UB21618S1	Sodium Chloride	UP, ACS RG	500 g	13.80
	UB21606S1 UB21660S1	Sodium Nitrate Sodium Phosphate Dibasic	ACS RG ACS RG	500 g 500 g	37.70 56.60
				555 9	

USB ACS GRADE BIOCHEMICALS

Product Number	Description	Grade	Pkg Size*	Price
UB20232S2	Sodium Phosphate Dibasic, Heptahydrate	UP, ACS RG	500 g	\$37.30
UB20233S2	Sodium Phosphate Monobasic, Monohydrate	UP, ACSRG	500 g	53.90
UB21601S1	Sodium Pyrophosphate Decahydrate	ACS RG	500 g	49.80
UB21622S1 UB21624S1	Sodium Sulfate, Anhydrous Sodium Sulfite, Anhydrous	ACS RG ACS RG	500 g 500 g	27.60 29.00
UB21627S1	Sodium Thiosulfate, Pentahydrate	ACS RG	500 g	27.60
UB21931S1 UB22664S1	Sucrose Tris	ACS RG ACS RG	500 g 500 g	25.80 40.10
UB23041S1	Urea	ACS RG	500 g	27.60

* Please note other package sizes are available, please inquire.

USB SUGARS

Product Number	Description	Grade	Pkg Size*	Price
UB13979S1 UB10635S2 UB11270S1	α-Cyclodextrin Adonitol Amylopectin		25 g 25 g 1 kg	\$176.70 80.20 60.80
UB11450S2 UB13980S1 UB18425S1	Arbutin ß-Cyclodextrin ß-D-Fructose		10 g 100 g 500 g	106.40 113.30 26.50
UB14420S1 UB13235S2 UB14535S3	2-Deoxy-D-Ribose D-(+)-Cellobiose	UP	5 g 10 g 100 lb	49.80 33.60 301.10
UB15996S1 UB18185S1	D-(+)-Dextrose, Anhydrous D-(+)-Galactose D-(+)-Lactose, Monohydrate	HP USBA	100 g 1 kg	85.10 26.50
UB18725S3 UB21060S4 UB23520S1	D-(+)-Maltose, Hydrate D-(+)-Raffinose, Pentahydrate D-(+)-Xylose	UP	5 kg 1 kg 100 g	145.10 871.90 29.20
UB21220S1 UB14495S3 UB14530S2	D-(-)-Ribose Dextran Dextrin	UP UP	5 g 1 kg 25 lb	13.80 312.30 65.00
UB11400S1 UB18140S1 UB21710S2	DL-Arabinose DL-Lactic Acid, Free Acid D-Sorbitol	UP, USBA	10 g 1 kg 1 kg	112.30 55.40 22.10
UB15590S2 UB16375S1	Esculin Glycerol L-Arabinose	UP, USBA	25 g 500 g	76.60 13.80
UB11406S1 UB18724S3 UB18755S2	Maltose, Monohydrate Mannitol	HP HP UP, USBA	25 g 1 kg 1 kg	69.10 205.70 127.80
UB10145S1 UB32823S3 UB21695S2	N-Acetyl-D-Glucosamine Starch Hydrolyzed Starch-Soluble	UP UP	10 g 1 kg 1 kg	19.40 160.50 52.50

* Please note other package sizes are available, please inquire.



Products are for Laboratory Research Use Only.

USB AMINO ACIDS

USB AWIN				
Product Number	Description	Grade	Pkg Size*	Price
UB17950S2	α -Ketoglutaric Acid, Free Acid		100 g	\$42.90
UB10665S1	ß-Alanine	UP	1 kg	56.70
UB14000S4	D-Cycloserine		25 g	1,172.90
UB16405S1	Glycine	USBA	500 g	17.40
UB16407S2	Glycine	UP, MB	500 g	33.20
UB11079S2	L- α -Amino-N-Butyric Acid		5 g	168.60
UB11500S3	L-Arginine, Hydrochloride	UP	1 kg	102.30
UB11595S3	L-Asparagine, Monohydrate	UP	5 kg	660.60
UB14035S3	L-Cysteine, Hydrochloride, Monohydrate	UP, RG	1 kg	284.90
UB16285S5	L-Glutamine	UP	1 kg	258.80
UB18585S1	L-Lysine, Hydrochloride	UP	1 kg	41.50
UB19830S3	L-Ornithine, Hydrochloride	UP	1 kg	288.60
UB22765S3	L-Tryptophan	USBA	1 kg	619.00
UB10120S5	N-Acetyl-L-Cysteine	UP	1 kg	472.90
UB10675S3	D-Alanine		25 g	89.90
UB10705S3	L-Alanine	USBA	100 g	59.50
UB11160S2	DL-ß-Amino-Iso-Butyric Acid		25 g	106.40
UB11480S2	DL-Arginine, Hydrochloride		25 g	80.20
UB11600S2	D-Aspartic Acid		100 g	154.80
UB11620S1	L-Aspartic Acid	UP	1 kg	40.10
UB11940S3	Benzoyl-DL-Arginine Naphthylamide Hydrochloride	9	5 g	176.30
UB13745S3	L-Citrulline		100 g	132.70
UB13930S2	Creatinine		100 g	94.00
UB13910S2	Creatine Monohydrate		100 g	35.90
UB14020S3	DL-Cysteine, Hydrochloride		10 g	186.70
UB14575S3	DL-α-ε-Diaminopimelic Acid		10 g	146.80
UB15640S1	DL-Ethionine		5 g	142.20
UB16205S2	D-Glutamic Acid		25 g	116.10
UB16210S2	DL-Glutamic Acid, Monohydra	ate	100 g	47.00
UB16254S4	γ-L-Glutamyl-p-nitranilide, Fre	e Base	5 g	174.70
UB16320S3	Glutathione, Oxidized		1 g	33.60
UB16315S2	Glutathione, Reduced		25 g	90.50
UB16505S1	Glycyl-Glycine		100 g	55.30
UB17055S1	D-Histidine		10 g	159.20
UB17060S2	DL-Histidine		25 g	104.30
UB17070S2	L-Histidine, Free Base		100 g	50.10
UB17095S2	L-Histidinol, Dihydrochloride		1 g	127.50
UB17185S2	DL-Homocystine		100 g	78.80
UB17445S3	Hydroxy-L-Proline		100 g	189.10
UB17820S3	DL-Isoleucine		100 g	102.30
UB17825S4	L-Isoleucine	UP, USBA	100 g	100.90
UB18265S1	D-Leucine		5 g	55.30
UB18270S2	DL-Leucine		100 g	60.80
UB18270S2	DL-Leucine		100 g	60.80

Product Number	Description	Grade	Pkg Size*	Price
UB18280S2	L-Leucine	UP	100 g	\$29.00
UB18581S2	L-Lysine, Monohydrate		100 g	210.00
UB18905S3	D-Methionine		25 g	125.80
UB18910S2	DL-Methionine	UP	1 kg	41.50
UB18915S3	L-Methionine	UP, USBA	1 kg	220.20
UB19635S2	DL-Norleucine		100 g	123.00
UB19660S2	DL-Norvaline		100 g	51.20
UB20120S3	DL-α-Phenyl Glycine		100 g	94.00
UB20100S2	DL-Phenylalanine		100 g	42.90
UB20105S4	L-Phenylalanine	UP, USBA	250 g	126.30
UB20723S2	D-Proline		5 g	146.50
UB20725S2	DL-Proline		25 g	164.30
UB20730S3	L-Proline	UP, USBA	100 g	60.40
UB20740S1	L-Proline-p-Nitroanilide		500 mg	148.40
UB20850S2	Putrescine, Dihydrochloride		25 g	66.60
UB21490S2	D-Serine		25 g	85.70
UB21485S2	DL-Serine		100 g	31.40
UB21505S2	L-Serine		100 g	76.60
UB22070S2	Taurine		1 kg	148.00
UB22280S2	D-Threonine		25 g	142.40
UB22285S2	DL-Threonine		100 g	124.40
UB22290S3	L-Threonine	UP	100 g	99.50
UB22394S2	L-Thyroxine		1 g	66.80
UB22591S2	3, 3', 5-Triiodo-L-Thyronine, Sodium Salt		500 mg	219.70
UB22755S2	D-Tryptophan		100 g	159.20
UB22875S3	Tyramine, Hydrochloride		25 g	127.20
UB22890S2	D-Tyrosine		5 g	81.60
UB22895S1	DL-Tyrosine		25 g	71.90
UB22935S3	L-Tyrosine, Hydrochloride		10 g	141.40
UB23195S2	DL-Valine		1 kg	168.60
UB23205S4	L-Valine	USBA	500 g	175.10

* Please Note: Various package sizes are available. Please call to inquire.



BIOCHEMICALS

USB VITAMINS

Product Number	Description	Grade	Pkg Size*	Price
UB11570S1	Ascorbyl Palminate		1 kg	\$342.10
UB12115S2	D-Biotin	UP	1 g	51.20
UB12550S2	D-Calcium Pantothenate	USBA	500 g	120.30
UB18505S5	$DL-\alpha$ -Lipoic Acid		100 g	479.00
UB12555S2	DL-Calcium Pantothenate		1 kg	159.00
UB12795S3	DL-Carnitine HCL		1 kg	199.10
UB13394S3	Cholecalciferol	USBA	5 g	117.90
UB13405S2	Choline Bitartate		500 g	51.20
UB13410S5	Choline Chloride		1 kg	40.10
UB13415S3	Choline Dihydrogen Citrate		5 kg	127.20
UB13765S3	Cocarboxylase		25 g	62.20
UB15562S2	Ergocalciferol	USBA	5 g	143.40
UB15565S3	Ergosterol		25 g	94.10
UB17645S2	Inositol		500 g	90.30
UB18815S3	Menadione	USBA	100 g	66.80
UB18820S2	Menadione, Sodium Bisulfite		100 g	71.50
UB18970S2	Methotrexate	UP	100 mg	59.00
UB19480S3	Niacinamide	USBA	1 kg	34.60
UB11055S2	p-Amino Benzoic Acid (PABA)	USBA	500 g	47.00
UB20890S2	Pyridoxal, Hydrochloride		5 g	99.50
UB20895S2	Pyridoxal-5'-Phosphate, Monohydrate		5 g	60.80
UB20925S1	Pyridoxamine, Dihydrochloride, Monohydrate		1 g	75.70
UB20900S4	Pyridoxine, Hydrochloride	USBA	100 g	71.90
UB23360S2	Vitamin B ₁₂	USBA	500 mg	37.30
UB23365S2	Vitamin B ₁₂	UP	25 g	34.60
UB21145S1	Riboflavin	UP	100 g	34.60
UB21150S3	Riboflavin-5'-Phosphate, Sodium Salt	USBA	100 g	114.70
UB22170S3	Thiamine, Hydrochloride	UP	500 g	129.90
UB22175S1	Thiamine, Mononitrate		100 g	31.80
UB22410S2	D-α-Tocopherol		100 g	52.50
UB22415S2	DL-α-Tocopherol		100 g	56.50
UB22425S2	$DL-\alpha$ -Tocopherol Acetate		100 g	41.50
UB22420S2	$DL-\alpha$ -Tocopheryl Acetate		100 g	58.10
UB23310S2	Vitamin A Acetate		100 g	44.90
UB23330S2	Vitamin A Palmitate		100 g	47.80
UB23445S3	Vitamin K ₁	USBA	5 g	117.50
UB23446S2	Vitamin K ₅		5 g	158.70

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USB ANTIBIOTICS

Product Number	Description	Grade	Pkg Size*	Price
UB11259S2	Ampicillin, Sodium Salt	UP, USBA	25 g	\$53.90
UB11257S2	Ampicillin, Trihydrate	UP	25 g	53.90
UB11256S1	Amoxicillin, Trihydrate	UP	10 g	142.80
UB11375S2	Antimycin A		25 mg	242.50
UB11805S1	Bacitracin	UP, USBA	5 g	33.90
UB12678S2	Carbenicillin, Disodium Salt		1 g	121.60
UB13294S1	Cephalexin	USBA	10 g	183.40
UB23660S3	Chloramphenicol	UP, USBA	100 g	102.30
UB13535S1	Chlorotetracycline, Hydrochloride	UP, USBA	5 g	35.90
UB14765S2	Dihydrostreptomycin Sulfate	UP, USBA	100 g	77.40
UB11379S4	G 418 Sulfate Antibiotic - (Geneticin®)	UP	5 g	384.60
UB16051S3	Gentamicin Sulfate	UP, USBA	5 g	202.80
UB19436S3	Nalidixic Acid	UP	100 g	129.90
UB19435S3	Neomycin Sulfate	UP, USBA	25 g	26.30
UB19770S2	Nystatin	USBA	5 mu	63.70
UB19803S1	Oligomycin A		10 mg	249.00
UB23659S2	Oxytetracycline, Hydrochlorid	е	100 g	65.00
UB19985S1	Penicillin G, Potassium	UP, USBA	100 mu	80.20
UB19995S1	Penicillin G, Sodium	UP, USBA	100 mu	85.70
UB21246S2	Rifampin	USBA	5 g	154.80
UB21865S3	Streptomycin Sulfate	UP, USBA	100 g	71.90
UB21870S3	Streptozotocin		500 mg	94.60
UB22105S2	Tetracycline Hydrochloride	UP, USBA	100 g	76.00
UB23000S2	Tyrothricin		5 g	124.90

* Please note other package sizes are available, please inquire.

USB SUBSTRATES

Product Number	Description	Grade	Pkg Size*	Price
UB22128S1	3,3',5,5'- Tetramethylbenzidine (TMB) Substrate Solution	UP	250 mL	\$117.30
UB12387S3	5-Bromo-4-Chloro-3-Indolyl Phosphate, Disodium Salt (BCIP)	UP	100 mg	43.90
UB10077S1	5-Bromo-4-Chloro-3-Indolyl- ß-D-Galactoside (X-GAL)	UP	100 mg	53.40
UB12388S3	5-Bromo-4-Chloro-3-Indolyl- ß-D-Glucuronic Acid (X-GLUC) Cyclohexylammonium Salt	UP ,	100 mg	364.00
UB34131S3	p-Nitrophenyl-α-L- Fucopyranoside		1 g	277.70

USB ENZYMES

Product Number	Description	Grade	Pkg Size*	Price
UB10380S1	Acid Phosphatase		1 g	\$78.70
UB15335S6	ß-Nicotinamide Adenine Dinucleotide		100 g	2,286.20
UB12885S4	Catalase		10 g	358.50
UB13285S2	Cellulase		100 g	51.20
UB14626S1	Diastase		100 g	82.90
UB15475S2	Elastase		10 mg	153.50
UB16144S1	Glucose Dehydrogenase		500 units	69.50
UB16965S3	Hexokinase		10 ku	121.20
UB17680S3	Invertase		1 kg	156.20
UB18065S2	Lactate Dehydrogenase		10 ku	57.60
UB18492S1	Lipase		25 ku	63.60
UB19275S1	Mucin		100 mg	62.30
UB19880S1	Pancreatin 1X		200 g	18.00
UB19930S2	Papain		500 g	108.60
UB20010S1	Pepsin		1 g	50.00
UB20055S1	Peroxidase		25 mg	78.80
UB22720S2	Trypsin	UP, USBA	5 g	179.90
UB22725S1	Trypsin (TPCK Treated)	UP	100 mg	105.70

USB GENERAL BIOCHEMICALS

Product Number	Description	Grade	Pkg Size*	Price
UB10035S2	Acetophenetidine		500 g	\$37.30
UB10395S2	Acriflavin Neutral		100 g	82.90
UB10625S1	Adipic Acid		500 g	16.60
UB10654S2	Agar		1 lb	47.00
UB10910S2	Alizarin Red S		100 g	324.60
UB32809S1	Amido Black 10B	UP	100 g	22.10
UB32811S2	Basic Fuschin		25 g	60.80
UB11905S2	Benzoic Acid		1 kg	22.10
UB12052S1	Bestatin		5 mg	74.20
UB12080S1	Betaine, Anhydrous		100 g	15.70
UB12085S1	Betaine, Hydrochloride		100 g	16.60
UB12090S1	BHA		500 g	37.30
UB10295S2	BHT		500 g	39.40
UB12110S3	Bilirubin		1 g	82.90

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USB GENERAL BIOCHEMICALS

Product Number	Description	Grade	Pkg Size*	Price
UB77157S1	Bis-(2-Mercaptoethanol)- Sulfone, Ultrapure	UP RG	250 mg	\$112.10
UB12149S1	Bleomycin Sulfate	USBA	15 units	656.80
UB32812S1	Brilliant Blue G	UP	25 g	18.00
UB32826S2	Brilliant Blue R	UP	100 g	60.80
UB12520S1	Caffeine, Anhydrous, Ultrapure	UP	100g	17.40
UB13361S2	CHAPS	UP	10 g	169.20
UB13610S3	Cholesterol		1 kg	237.40
UB13630S5	Cholic Acid, Sodium Salt	UP	1 kg	375.80
UB13729S2	Citric Acid, Anhydrous	USBA	1 kg	22.10
UB13787S4	Coenzyme A, Free Acid, Trihydrate, Ultrapure	UP	100 mg	171.20
UB13785S5	Coenzyme A, Lithium Salt, Trihydrate		250 mg	290.30
UB13928	Compact Reaction Columns		50	145.80
UB13852S1	Corn Oil-Tocopherol Stripped		400 g	127.50
UB21026S2	Deoxycholic Acid, Sodium Salt	UP	100 g	52.50
UB76500S1	Dexamethasone	UP, USBA	100 mg	18.00
UB14850S3	Dimedone		1 kg	486.50
UB15385S3	Dithioerythritol	UP	25 g	242.60
UB15703S1	Ethylene Glycol-O,O'-Bis (2-Aminoethyl)-N,N,N',N',- Tetraacetic Acid (EGTA)	UP	10 g	87.10
UB15701S2	Ethylenediaminetetraacetic Acid, (EDTA) Disodium Salt, Dihydrate	UP, MB	500 g	60.80
UB16920S2	Heparin, Sodium Salt	UP, USBA	100 ku	27.60
UB17924S2	Kanamycin Sulfate	UP, USBA	25 g	160.80
UB11545S2	L-Ascorbic Acid	UP, USBA	1 kg	62.20
UB18245S1	Lecithin		500 g	42.90
UB18413S4	Leupeptin	UP	100 mg	494.80
UB18685S2	Maleic Acid	RG	1 kg	36.20
UB19265S5	MTT	UP	10 g	388.40
UB14862S1	N,N-Dimethyl Formamide	UP	250 mL	46.30
UB21653S2	N-Lauroyl Sarcosine, Sodium Salt	UP	100 g	71.90
UB19775S1	n-Octyl-ß-D-Glucopyranoside	UP	1 g	74.20
UB77405S1	Oligo(dT)12-18 Primer, MW ≈ 4500	MB	100 μL	63.60
UB19943S1	Paraformaldehyde Solution, 4% in PBS		1 L	55.00
UB20037S2	Pepstatin A	UP	25 mg	130.40
UB75830S2	Phenol	UP, MB	500 g	131.70
UB20203S3	Phenylmethyl Sulfonyl Fluoride		25 g	177.80

* Please note other package sizes are available, please inquire.

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USB GENERAL BIOCHEMICALS

Product Number	Description	Grade	Pkg Size*	Price
UB19535S1	p-Nitro Blue Tetrazolium Chloride (NBT)	UP	250 mg	\$29.50
UB19957S2	Polyethylene Glycol 400 (PEG 400)	UP	1 L	60.40
UB19959S2	Polyethylene Glycol 8000, Flakes	UP	1 kg	63.30
UB32819S2	Ponceau S, Sodium Salt	UP	50 g	49.80
UB21435S1	Saponin	UP	100 g	60.80
UB21610S2	Sodium Azide	UP	500 g	104.30
UB21705S2	Sorbic Acid	UP	500 g	42.00
UB21760S2	Spermidine Trihydrochloride	UP	5 g	95.40
UB21900S3	Succinic Acid, Free Acid	UP	1 kg	39.80
UB22292S1	Thrombin Human		1000 units	197.60
UB22686S1	Triton [®] X-100	UP	500 mL	14.40
UB20605S1	Tween [®] 20	UP	500 mL	20.00
UB20608S2	Tween [®] 80	USBA	1 ga	78.40
UB23036S3	Urea	HP	5 kg	158.00
UB23261S2	Vancomycin, Hydrochloride	UP, USBA	250 mg	40.60
UB23513S1	Xylene Cyanol FF	UP	25 g	84.30
UB23547S1	Yeast Extract Powder	UP	500 g	27.60
UB23540S2	Yeast-Bakers		5 lb	94.10

USB NUCLEOTIDE POWDERS, PURINES & PYRIMIDINES

Product Number	Description	Grade	Pkg Size*	Price
UB14691S3	2',3'-Dideoxyadenosine		25 mg	\$408.10
UB14235S1	2'-Deoxyadenosine		1 g	22.10
UB14225S1	2'-Deoxyadenosine-5'- Monophosphate, Free Acid		100 mg	21.70
UB14245S3	2'-Deoxyadenosine-5'- Triphosphate, Disodium Salt		100 mg	250.80
UB14270S4	2'-Deoxycytidine Hydrochloride	е	10 g	242.60
UB14260S3	2'-Deoxycytidine, Free Base		5 g	185.40
UB14275S1	2'-Deoxycytidine-5'- Monophosphate, Disodium Sa	lt	100 mg	28.80
UB14280S3	2'-Deoxycytidine-5'-Triphospha Trisodium Salt	ate,	100 mg	503.80
UB14300S3	2'-Deoxyguanosine		25 g	369.50
UB14305S3	2'-Deoxyguanosine-5'- Diphosphate, Disodium Salt		100 mg	419.40
UB14310S1	2'-Deoxyguanosine-5'- Monophosphate, Disodium Sa	lt	100 mg	28.80
UB14315S3	2'-Deoxyguanosine-5'- Triphosphate, Trisodium Salt		100 mg	743.00

* Please note other package sizes are available, please inquire.

USB NUCLEOTIDE POWDERS, PURINES & PYRIMIDINES

Product Number	Description	Grade	Pkg Size*	Price
		Graue		
	2'-Deoxyinosine		5 g	\$238.60
UB14335S1	2'-Deoxyinosine-5'- Triphosphate, Sodium Salt		25 mg	140.50
UB14425S3	2'-Deoxyuridine		5 g	161.70
UB14430S1	2'-Deoxyuridine-5'- Monophosphate, Disodium Sala	t	100 mg	36.40
UB11235S1	2-Aminopurine, Free Base		100 mg	49.80
UB11245S2	3-Amino-1,2,4-Triazole		100 g	86.90
UB11056S2	4-Amino Antipyrene		50 g	107.80
UB12400S1	5-Bromo-2'-Deoxyuridine		500 mg	38.70
UB15875S3	5-Fluorouracil	UP	5 g	153.20
UB17735S1	5-lodo-2'-Deoxyuridine		500 mg	18.00
UB10440S3	Adenine Hydrochloride		25 g	138.50
UB10450S2	Adenine Sulfate Dihydrate		10 g	22.10
UB10460S4	Adenosine	UP	100 g	169.10
UB10470S1	Adenosine-3'-5'-Cyclic Monophosphate		100 mg	46.30
UB10472S1	Adenosine-3'-5'-Cyclic Monophosphate, Sodium Salt, Ultrapure	UP	100 mg	39.10
UB10555S1	Adenosine-3'-Monophosphate, Monohydrate		250 mg	23.00
UB10490S4	Adenosine-5'-Diphosphate, Disodium Salt, Dihydrate, Ultrapure	UP	10 g	376.30
UB10500S1	Adenosine-5'-Diphosphate, Trisodium Salt		500 mg	32.20
UB10620S3	Adenosine-5'-Monophosphate, Disodium Salt		25 g	88.40
UB10521S3	Adenosine-5'-Monophosphate, Free Acid, Monohydrate		100 g	175.40
UB10586S5	Adenosine-5'-Triphosphate, Disodium Salt, Low Iron		100 g	783.90
UB14060S4	Cytidine, Free Base		100 g	287.40
UB14110S4	Cytidine-5'-Monophosphate, Disodium Salt		100 g	959.60
UB14121S1	Cytidine-5'-Triphosphate, Disodium Salt, Dihydrate		25 mg	18.20
UB14130S4	Cytosine		100 g	399.30
UB14138S3	Cytosine Arabinoside	UP	10 g	821.30



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USB NUCLEOTIDE POWDERS, PURINES & PYRIMIDINES

Product Number	Description	Grade	Pkg Size*	Price
UB21235S1	D-(–)-Ribose-5-Phosphate, Disodium Salt		250 mg	\$68.20
UB15785S1	Flavin Adenine Dinucleotide, Disodium Salt, Hydrate		100 mg	36.20
UB16740S4	Guanine Hydrochloride		1 kg	946.80
UB16750S4	Guanosine		1 kg	702.90
UB16751S2	Guanosine, Low Endotoxin		100 g	648.20
UB16762S1	Guanosine-2',3'-Cyclic Monophosphate, Sodium Salt		100 mg	84.80
UB16770S1	Guanosine-3'-5' Monophosphate, Sodium Salt	UP	250 mg	418.50
UB16785S2	Guanosine-5'-Diphosphate, Disodium Salt		100 mg	43.60
UB16800S1	Guanosine-5'-Triphosphate, Disodium Salt		25 mg	38.70
UB17130S1	Histone		100 mg	26.50
UB17105S1	Histone, Salt Free		100 mg	70.90
UB17120S2	Histone-Lysine Rich		100 mg	98.50
UB17126S1	Histone-Lysine Rich F1		10 mg	63.70
UB17128S1	Histone-Slightly Lysine Rich F2b		10 mg	203.00
UB17520S3	Hypoxanthine		25 g	41.50
UB17620S4	Inosine		100 g	158.00
UB20795S2	Protamine Sulfate	USBA	25 g	187.10
UB20835S1	Purine, Free Base		250 mg	29.00
UB20940S1	Pyrimidine, Free Base		500 mg	23.50
UB10062S1	S-Acetyl Coenzyme A, Lithium Salt	UP	10 mg	81.80
UB10601S2	S-Adenosyl-L-Methionine Sulfate p-Toluenesulfonate		100 mg	444.10
UB22165S1	Theophylline		100 g	18.00
UB22310S3	Thymidine-5'-Diphosphate, Sodium Salt		100 mg	888.00
UB22325S1	Thymidine-5'-Triphosphate, Trisodium Salt		10 mg	59.10
UB22330S2	Thymine		25 g	37.30
UB23020S1	Uracil		100 g	30.90
UB23075S3	Uric Acid		100 g	77.40
UB23130S4	Uridine		100 g	489.00
UB23135S2	Uridine-5'-Diphosphate, Disodium Salt		100 mg	41.90
UB23160S2	Uridine-5'-Triphosphate, Trisodium Salt		500 mg	140.30

USB NUCLEOTIDE POWDERS, PURINES & PYRIMIDINES

Product Number	Description	Grade	Pkg Size*	Price
UB23140S1	Uridine-5'-Diphospho-Glucose, Disodium Salt		500 mg	\$84.00
UB23460S4	Xanthine		100 g	215.30
UB23465S3	Xanthine Monosodium Salt, Monohydrate		10 g	89.80

USB ULTRAPURE NUCLEOTIDES (dNTPs)

USB offers an extensive selection of Ultrapure nucleotides for a wide variety of applications. All USB Ultrapure nucleotides are functionally tested in either PCR or DNA sequencing. USB nucleotides are available in solution or powder form and are provided in convenient packaging – separately, as a set of 4 or as a mixture. Deoxynucleotides (dNTPs), Dideoxynucleotides (ddNTPs) and Ribonucleotides (NTPs) are available in either sodium or lithium salt forms.

Product Number	Description	Grade	Pkg Size*	Price
UB77102S1	2'-Deoxyadenosine- 5'-Triphosphate (dATP) Sodium Salt, 100mM Solution	UP	25 μmol	\$83.30
UB77104S1	2'-Deoxycytidine- 5'-Triphosphate (dCTP) Sodium Salt, 100mM Solution	UP	25 μmol	83.30
UB77106S1	2'-Deoxyguanosine- 5'-Triphosphate (dGTP) Sodium Salt, 100mM Solution	UP	25 μmol	83.30
UB77205S1	2'-Deoxyinosine- 5'-Triphosphate (dITP) Sodium Salt, 100mM Solution	UP	25 μmol	88.70
UB77108S1	2'-Deoxythymidine- 5'-Triphosphate (dTTP) Sodium Salt, 100mM Solution	UP	25 μmol	83.30
UB77206S1	2'-Deoxyuridine- 5'-Triphosphate (dUTP) Sodium Salt, 100mM Solution	UP	25 μmol	88.70
UB77100S1	Set of Four dNTPs (dATP, dCTP, dGTP, dTTP) 100mM Solution	UP	4 x 25 μmol	272.80
UB77328	Set of Four dNTPs (<i>dATP, dCTP, dGTP, dTTP</i>) 100mM Solution	UP	4 x 100 μmol	768.60
UB77212S1	PCR Nucleotide Mix (10mM each dATP, dCTP, dGTP, dTTP	UP	500 μL	87.80
UB77330S1	PCR Nucleotide Mix with dUTP (10mM each dATP, dCTP, dGTP, dUTP		500 μL	87.80

* Please note other package sizes are available, please inquire.



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USB ULTRAPURE DIDEOXYNUCLEOSIDE TRIPHOSPHATES (ddNTPs)

Product Number	Description	Grade	Pkg Size*	Price
UB77110S1	2',3'-Dideoxyadenosine- 5'-Triphosphate (ddATP), Sodium Salt, 10mM Solution	UP	1 μmol	\$35.80
UB77112S1	2',3'-Dideoxycytidine- 5'-Triphosphate (ddCTP), Sodium Salt, 10mM Solution	UP	1 μmol	60.80
UB77114S1	2',3'-Dideoxyguanosine- 5'-Triphosphate (ddGTP) Sodium Salt,10mM Solution	UP	1 μmol	59.50
UB77116S1	2',3'-Dideoxythymidine- 5'-Triphosphate (ddTTP), Sodium Salt, 10mM Solution	UP	1 μmol	59.50
UB77125	Set of Four ddNTPs (ddATP, ddCTP, ddGTP, ddTTP 10mM Solution	UP ツ	4 x 1 μmol	232.00

USB ULTRAPURE RIBONUCLEOTIDES (NTPs)				
Product Number	Description	Grade	Pkg Size*	Price
UB77241S1	Adenosine-5'-Triphosphate (ATP), Sodium Salt, 100mM So	UP plution	25 μmol	\$78.70
UB77242S1	Cytidine 5'-Triphosphate (CTP), Sodium Salt, 100mM Se	UP olution	25 μmol	78.70
UB77243S1	Guanosine-5'-Triphosphate (GTP), Sodium Salt, 100mM S	UP olution	25 μmol	78.70
UB77244S1	Uridine-5'-Triphosphate (UTP), Sodium Salt, 100mM Se	UP olution	25 μmol	78.70
UB77245S1	Set of Four NTPs (<i>ATP, CTP, GTP, UTP</i>)100mM	UP Solution	4 x 25 μmol	245.30

USB MUTATION DISCOVERY PROTEINS

E. coli Mut Proteins are ideal for mutation detection and mismatch repair studies. This class of proteins simplifies the study of genetic variations. Mut S Protein, for example, actually detects disruption of normal base pairings without using primers. These products are thoroughly tested to ensure functional integrity and are offered exclusively from USB.

Product Number	Description	Pkg Size	Price
UB71432S1	Mut H	5 ug	\$166.60
UB71435S1	Mut L	25 ug	218.10
UB71422S1	Mut S	25 ug	218.10
UB71428S1	Mut Y	100 ug	279.40
	(<i>E. coli</i> Adenine DNA Glycosylase)		
UB78333S1	T4 Endonuclease VII	1 mL	27.30



USB PROTEINS Product Pkg Size' Number Description Grade Price UB11388S2 Aprotinin UP 25 ma \$119.60 UP 1 lb UB20048S1 Bacteriological Peptone 65.70 UB12845S3 Casein (High Nitrogen) UP 25 lb 392.90 UB12855S1 Casein Hydrolysate, UP 1 lb 31.80 **Enzymatic Digest** UB12840S1 Casein-Hammersten UP 100 g 22.10 UP 10 g UB18645S3 Lysozyme 134.80 UP UB21730S2 Soybean Trypsin Inhibitor 1 g 127.20 UB22508S1 Transferrin, Holo 100 mg 117.30

Visit www.usb.affymetrix.com for a complete listing of their proteins.

USB ALBUMINS

Product Number	Description	Grade	Pkg Size*	Price
UB10867S1	Albumin, Bovine	MB	10 g	\$242.50
UB10864S1	Albumin, Bovine, 22% Solution		10 mL	43.50
UB10921S1	Albumin, Bovine, 50 mg/mL Solution	UP, MB	50 mg	63.60
UB10848S1	Albumin, Bovine, Acetylated	UP, MB	25 mg	53.00
UB10852S2	Albumin, Bovine, Cohn Fraction V		100 g	292.10
UB10856S4	Albumin, Bovine, Crystallized		100 g	1,202.40
UB10857S3	Albumin, Bovine, Fraction V		100 g	110.10
UB10858S3	Albumin, Bovine, Fraction V, Fatty Acid Poor		10 g	158.90
UB10868S4	Albumin, Bovine, Fraction V	RIA	100 g	353.30
UB10893S1	Albumin, Bovine, Low Endotoxin		10 g	56.70
UB10881S1	Albumin, Fraction V Fatty Acid Poor		500 mg	21.70
UB10878S4	Albumin, Human, Fraction V	UP	10 g	136.20

* Please note other package sizes are available, please inquire.

USB DNA BINDING PROTEIN

Single-Stranded DNA Binding Protein binds with high affinity in a cooperative manner to single-stranded DNA and does not bind well to doublestranded DNA. It is involved in DNA replication and recombination *in vivo*.

Product Number	Description	Pkg Size	Price
UB70032Y	Single-Stranded DNA Binding Protein (SSB)	100 µg	\$154.20







Northstar BioProducts[®] (formerly Seikagaku America) is the research product line of Cape Cod, Inc. (ACC). Since 2005, Northstar BioProducts[®] has provided high quality reagents, chemicals and glycoanalysis technology for quantitative glycoprofiling of therapeutic glycoproteins for biopharmaceutical research and QC.

They are a leading provider of carbohydrate chemistry oriented products including glycosaminoglycans (GAGs), GAG enzymes, mucopolysaccharides, monoclonal antibodies, endoglycosidases, exo-glycosidases, as well as complete deglycosylation kits.

NORTHSTAR OLIGOSACCHARIDES

All oligomers are chromatographically pure, greater than 95%, confirmed by high performance liquid chromatography.

Product Number	Description	Pkg Size	Price			
N-Acetylchitooligosaccharides						
SK4004121 SK4004181 SK4004231 SK4004251 SK4004271	Tri-N-Acetylchitotriose, Fine Di-N-Acetylchitobiose, Fine Tetra-N-Acetylchitotetraose Penta-N-Acetylchitopentaose, Fine Hexa-N-Acetylchitohexaose, Fine	50 mg 50 mg 50 mg 50 mg 50 mg	\$186.10 218.40 186.10 194.20 267.80			
Chitosan Olig	gosaccharides					
SK4004321 SK4004331 SK4004341 SK4004351 SK4004361	Chitosan Dimer Chitosan Trimer Chitosan Tetramer Chitosan Pentamer Chitosan Hexamer	100 mg 100 mg 100 mg 100 mg 100 mg	169.90 169.90 348.30 348.30 503.10			
Cellooligosad	ccharides					
SK4004001 SK4004021 SK4004041 SK4004061	Cellotriose, Fine Cellotetraose, Fine Cellopentaose, Fine Cellohexaose, Fine	50 mg 50 mg 50 mg 50 mg	186.10 186.10 194.20 202.30			
Laminarioligo	osaccharides					
SK4004851 SK4004871 SK4004891 SK4004911 SK4004931 SK4004951	Laminaribiose, Fine Laminaritriose, Fine Laminaritetraose, Fine Laminaripentaose, Fine Laminarihexaose, Fine Laminariheptaose, Fine	50 mg 50 mg 50 mg 50 mg 50 mg 50 mg	218.40 186.10 186.10 186.10 186.10 186.10			
Other Oligos	accharides					
SK4005771 SK4005781 SK4005791 SK4005801 SK4005811	Trehalose 999 Trehalose Trehalose, Endotoxin Free Trehalose, Anhydrous Neotrehalose	5 g 100 g 100 g 100 g 1 g	667.20 191.00 506.20 234.60 442.70			
Standard Mix	ture					
SK8001041 SK8001051 SK8001061	N-Acetylchitooligosaccharides Mixture (for HPLC) Chitosan-Oligosaccharides Mixture (for HPLC) Laminarioligosaccharides Mixture (for HPLC)	30 mg 150 mg 35 mg	461.30 461.30 461.30			

NORTHSTAR GAG DEGRADING ENZYMES

Product	Description	Pkg Size	Duine
Number	Description	Size	Price
SK1003301A	Chondroitinase ABC (Proteus vulgaris)	10 units	\$231.40
SK1003321A	Chondroitinase ABC Protease Free (<i>Proteus vulgaris</i>)	2 units	286.40
SK1003341A	Chondroitinase AC I Flavo (Flavobacterium heparinum)	1 unit	239.50
SK1003351A	1 / /	5 units	239.50
SK1003371A	Chondroitinase B (Flavobacterium heparinum)	0.1 unit	385.50
SK1003501A	, , , ,	1.6 units	239.50
SK1003551A	Chondro-6-Sulfatase (Proteus vulgaris)	2.5 units	239.50
SK1007003	Heparinase (Flavobacterium heparinum)	0.1 unit	574.30
SK1007033	Heparitinase (Flavobacterium heparinum)	0.1 unit	574.30
SK1007041A	Heparitinase I (Flavobacterium heparinum)	0.1 unit	770.90
SK1007051	Heparitinase II (Flavobacterium heparinum)	0.1 unit	764.70
SK1007401	Hyaluronidase (Streptomyces hyalurolyticus)	4 ampules	224.90
SK1007411A	100 TRU/ampule Hyaluronidase SD <i>(Streptococcus dysgalactiae)</i>	0.5 units	239.50
SK1008101	(Pseudomonas sp.)	10 units	431.90
SK1008121	Keratanase II (Bacillus sp.)	0.1 units	431.90

NORTHSTAR MUCOPOLYSACCHARIDES AND GLYCOSAMINOGLYCANS

Product Number	Description	Pkg Size	Price
SK4006401A	Chondroitin, Na Salt	20 mg	\$235.30
SK4006581A	Chondroitin Sulfate A, Na Salt, Super Special Grade	2 mg	235.30
SK4006701A	Chondroitin Sulfate C, Na Salt, Super Special Grade	20 mg	212.00
SK4006751A	Chondroitin Sulfate C, Na Salt, Special Grade	2 g	235.30
SK4006761A	Chondroitin Sulfate D, Na Salt, Super Special Grade	20 mg	235.30
SK4006781A	Chondroitin Sulfate E, Na Salt, Super Special Grade	2 mg	235.30
SK4007631A	Biotinylated Hyaluronic Acid Binding Protein	50 µg	456.70

ELISA KITS							
Product Number	Description	Pkg Size	Price				
SK2805641	Heparan Sulfate ELISA Kit	1 kit	\$1,540.30				

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CARBOHYDRATES

KITS FOR CARBOHYDRATE ANALYSIS, PURIFICATION, LABELING & DETECTION

Product Number	Description	Pkg Size	Price
SK4005701	Unsaturated Chondro-Disaccharide Kit Includes: delta Di-0S, delta Di-4S, delta Di-6S, 2 mgs/each	Kit	\$869.90
SK4005711	Unsaturated Chondro-Disaccharide Kit (C Kit) Includes: delta Di-0S, delta Di-4S, delta Di-6S, delta Di-diSD, delta Di-diSE, delta Di-triS, 250 µg	Kit	1,113.00
SK4005721	Unsaturated Dermato/Hyaluro-Disaccharide Kit (D Kit)	Kit	1,113.00
SK4005751	Unsaturated HS/HEP-Desaccharide Kit (H Kit) for HPLC Includes: delta DiHS-0S, delta DiHS-NS, delta DiHS-6S, delta DiHS-diS1, delta DiHS-diS2, delta DiHS-triS	Kit	1,860.70
SK4008601	Chitosan-Oligosaccharides Mixture The Chitosan-Oligosaccharides Mixture is for dissolution of sample adsorbed to DSA, PWM and WGA-agarose. It is a hydrolyzed product of chitin and is an oligomer with ß-1-4 binding of D-GlcNAc. The mixture comprises 2 to 8 saccharides.		380.80

ENDO-GLYCOSIDASE

Product Number	Description	Pkg Size	Price
SK1000951	N-Acetylmuramidase SG (Streptomyces globisporus)	10 mg	\$501.60
SK1004531	Endo-alpha-N-Acetylgalactosaminidase (Alcaligenes sp.)	0.5 unit	1,356.00
SK1004551	Endo-beta-Galactosidase (Escherichia freundii)	0.1 unit	562.00
SK1004601	Endoglycosidase D (Streptococcus pneumoniae)	0.1 unit	289.60
SK1004611	Endoglycosidase F1(Chryseobacterium menigosepticum recombinant) **	1 unit	456.70
SK1004621	Endoglycosidase F2 (Chryseobacterium menigosepticum recombinant) **	300 mU	456.70
SK1004631	Endoglycosidase F3 (Chryseobacterium menigosepticum recombinant) **	300 mU	456.70
SK1004651	Endoglycosidase H (Streptomyces griseus)	0.1 unit	270.90
SK1004671	Endoglycosidase H (Streptomyces plicatus recombinant) **	300 mU	456.70
SK1004681	Endo-beta-N-Acetylglucosaminidase (Flavobacterium sp.)	1 unit	1,046.40
SK1006761	Glycopeptidase A (Almond)	10 m unit	1,165.70
SK1006861	O-Glycosidase (Streptococcus pneumonia recombinant) **	0.075 unit	456.70
SK1006881	PNGase F (Chryseobacterium menigosepticum) **	300 mU	456.70
SK1201251	Proline Specific Endopeptidase (Flavobacterium meningosepticum)	50 unit	718.30
SK1201601	Pullulanase, Crude (Aerobacter aerogenes)	1 g	152.80
SK1203891	beta-Glucosaminidase (Streptococcus pneumonia recombinant) **	2.75 unit	456.70

EXO-GLYCOSIDASE

Product Number	Description	Pkg Size	Price
SK1000861	alpha-N-Acetylgalactosaminidase (Acremonium sp.) **	1 unit	\$1,280.20
SK1000941	beta-N-Acetylhexosaminidase (Jack bean) **	10 units	513.90
SK1000961	beta-N-Acetylhexosaminidase (Penicillium oxalicum) **	2 units	1,297.30
SK1005351	alpha(1-2) Fucosidase (Xanthamonas) **	6 mU	456.70
SK1005391	alpha(1-3,4) Fucosidase (Xanthamonas) **	6 mU	456.70
SK1005401	alpha(1-6) Fucosidase (Chryseobacterium meningosepticum recombinant) **	6 mU	456.70
SK1005602	alpha-Galactosidase (Melibiase) (Mortierella vinacea)	50 units	357.60
SK1005621	alpha(1-3,6) Galactosidase (E.coli recombinant) **	24 units	456.70
SK1005701	beta-Galactosidase (Jack bean)	5 units	411.80
SK1005731	beta-Galactosidase (Streptococcus 6646K)	0.1 unit	544.90
SK1005771	beta(1-4) Galactosidase (Streptococcus Pneumonia recombinant) **	180 mU	456.70
SK1005791	beta(1-3,4,6) Galactosidase (recombinant) **	360 mU	456.70
SK1005811	Glucoamylase(Rhizopus sp.)	2,000U	179.60
SK1006801	Glycosidases "Mixed" (Turbo cornutus)	1 g	625.40
SK1009611	1,2 alpha Mannosidase, Recombinant	0.1 unit	659.40
SK1009621	alpha-Mannosidase (Jack bean)	10 units	411.80
SK1009671	alpha(1-6) Core Mannosidase (Xanthamonas recombinant) **	60 mU	456.70
SK1009681	alpha(1-2,3,6) Mannosidase (Jack Bean) **	600 mU	616.10
SK1200521	Neuraminidase F (Streptococcus sp.)	1 unit	506.20
SK1200551	alpha(2-3) neuraminidase (Streptococcus pneumonia recombinant) **	300 mU	456.70
SK1200561	alpha(2-3,6) neuraminidase (Clostridium perfringens recombinant) **	900 mU	456.70
SK1200571	alpha(2-3,6,8,9) neuraminidase (Arthrobacter ureafaciens recombinant) **	300 mU	456.70
SK1204621	beta(1-2) Xylosidase (Xanthamonas) **	600 mU	456.70
SK1204631	beta(1-4) Xylosidase (Enterobacter recombinant) **	300 mU	456.70

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LECTINS

AGAROSE LECTINS

For Lectin affinity chromatography, purification of glycoproteins, structural analysis of sugar chain in glycoproteins

Product Number	Description	Pkg Size	Price
SK3000131	Anti-H Lectin (Ulex europaeus) - Strong	2 mL	\$255.40
SK3000141	Anti-H Lectin (Ulex europaeus)	8 mL	255.40
SK3000161	AAL (Aleuria aurantia)	2 mg	309.60
SK3000361	Con A (Jack bean)	500 mg	255.40
SK3000371	DSA (Datura stramonium)	5 mg	433.40
SK3000381	DBA (Dolichos biflorus)	5 mg	309.60
SK3000431	ECA (Erythrina cristagalli)	5 mg	242.70
SK3000811	TTA (Tachypleus tridentatus Agglutinin)	1 mg	418.00
SK3000871	LCA (Lens culinaris) - A	5 mg	332.80
SK3000891	LCA (Lens culinaris)	5 mg	179.80
SK3000921	ABA (Agaricus bisporus)	5 mg	410.20
SK3000931	Lotus Lectin	5 mg	332.80
SK3000951	MAM (Maackia amurensis)	2 mg	255.40
SK3000961	PSA (Pisum sativum)	5 mg	194.20
SK3000991	PNA (Arachis hypogaea)	5 mg	179.80
SK3001041	PHA (Phaseolus vulgaris) - E4	5 mg	286.40
SK3001051	PHA (Phaseolus vulgaris) -L4	5 mg	379.30
SK3001141	PHA (Phaseolus vulgaris) - P	50 mg	355.40
SK3001411	PWM (Phytolacca americana)	5 mg	179.80
SK3001771	SSA (Sambucus sieboldiana)	5 mg	458.20
SK3001791	SBA (Soybean)	5 mg	218.40
SK3001831	UEA- I (Ulex europaeus)	2 mg	255.40
SK3001861	TJA (Trichosanthes japonica Agglutinin) - I	2 mg	814.20
SK3001871	TJA (Trichosanthes japonica Agglutinin) - II	5 mg	814.20
SK3001911	WGA (Wheat Germ)	2 mg	179.80

FITC LECTINS

For staining and detection of glycoproteins

Product Number	Description	Pkg Size	Price
SK3002051	AAL (Aleuria aurantia) - FITC	1 mg	\$512.40
SK3002061	ABA (Agaricus bisporus) - FITC	1 mg	255.40
SK3002111	Con A (Jack bean) - FITC	10 mg	218.40
SK3002141	DBA (Dolichos biflorus) - FITC	1 mg	179.80
SK3002151	DSA (Datura stramonium) - FITC	1 mg	218.40
SK3002181	LCA (Lens culinaris) - FITC	2 mg	152.80
SK3002191	Lotus Lectin - FITC	1 mg	218.40
SK3002201	MAM (Maackia amurensis) - FITC	1 mg	456.70
SK3002211	PHA (Phaseolus vulgaris) - E4 - FITC	2 mg	255.40
SK3002221	PHA (Phaseolus vulgaris) - L4 - FITC	2 mg	255.40
SK3002231	PNA (Arachis hypogaea) - FITC	2 mg	218.40
SK3002321	RCA 120 (Ricinus communus) - FITC	2 mg	176.20
SK3002511	SBA (Soybean) - FITC	2 mg	218.40
SK3002521	SSA (Sambucus sieboldiana) - FITC	1 mg	456.70
SK3002541	UEA-I (Ulex europaeus) - FITC	1 mg	309.60
SK3002611	WGA (Wheat Germ) - FITC	2 mg	179.80

LECTIN SUGAR SETS

For the elution of bound lectins from affinity chromatography resins

Product Number	Description	Pkg Size	Price
SK4008611	Sugar Set I (for Lectin-Agarose Set I)	1 Set	\$161.80
SK4008621 SK4008631	Sugar Set II (for Lectin-Agarose Set II) Sugar Set III (for Lectin-Agarose Set III)	1 Set 1 Set	215.20 410.20

LECTINS

BIOTINYLATED LECTINS

For staining and detection of glycoproteins

Product Number	Description	Pkg Size	Price
SK3004061	AAL (Aleuria aurantia) - Biotin	0.3 mg	\$179.80
SK3004062	AAL (Aleuria aurantia) - Biotin	1 mg	309.60
SK3004081	ABA (Agaricus bisporus) - Biotin	1 mg	255.40
SK3004101	Con A (Jack bean) - Biotin	5 mg	218.40
SK3004151	DBA (Dolichos biflorus) - Biotin	1 mg	218.40
SK3004171	DSA (Datura stramonium) - Biotin	1 mg	218.40
SK3004181	ECA (Erythrina cristagalli) - Biotin	1 mg	218.40
SK3004201	LCA (Lens culinaris) - Biotin	1 mg	125.90
SK3004231	Lotus Lectin - Biotin	1 mg	218.40
SK3004241	MAM (Maackia amurensis) - Biotin	1 mg	456.70
SK3004251	PHA (Phaseolus vulgaris) - E4 - Biotin	1 mg	218.40
SK3004261	PHA (Phaseolus vulgaris) - L4 - Biotin	1 mg	218.40
SK3004301	PNA (Arachis hypogaea) - Biotin	1 mg	152.80
SK3004401	SBA (Soybean) - Biotin	1 mg	218.40
SK3004421	SSA (Sambucus sieboldiana) - Biotin	1 mg	512.40
SK3004451	UEA- I (Ulex europaeus) - Biotin	1 mg	332.80
SK3004501	WGA (Wheat Germ) - Biotin	1 mg	152.80

PEROXIDASE LECTINS

For staining and detection of glycoproteins

Product Number	Description	Pkg Size	Price
SK3002811	Con A (Jack bean) - HRP	2 mg	\$ 267.00
SK3002831	DBA (Dolichos biflorus) - HRP	1 mg	512.40
SK3002841	DSA (Datura stramonium) - HRP	1 mg	456.70
SK3002851	LCA (Lens culinaris) - HRP	1 mg	410.20
SK3003011	PNA (Arachis hypogaea) - HRP	1 mg	410.20
SK3003021	PHA (Phaseolus vulgaris) - E4 - HRP	1 mg	410.20
SK3003031	PHA (Phaseolus vulgaris) - L4 - HRP	1 mg	512.40
SK3003141	SBA (Soybean) - HRP	1 mg	356.00
SK3003161	UEA-I (Ulex europaeus) - HRP	1 mg	558.80
SK3003211	WGA (Wheat Germ) - HRP	1 mg	356.00

LECTIN KITS

For staining and detection of glycoproteins

Product Number	Description	Pkg Size	Price
SK3002701	Lectin Set I - FITC (Con A, DBA, LCA, PHA-E4, PNA, RCA120, UEA-I & WGA)	1 Set	\$620.70
SK3002721	Lectin Set II- FITC (ABA, DSA, Lotus, MAM, PHA-L4, SBA & SSA)	1 Set	713.60
SK3003301	Lectin Set I - HRP (Con A, LCA, PHA-E4, PNA, RCA120 & WGA)	1 Set	659.40
SK3003311	Lectin Set II - HRP (Con A, DBA, LCA, PHA-E4, PNA, RCA120, UEA-I & WGA)	1 Set	1,061.90
SK3004801	Lectin Set I - Biotin (Con A, DBA, LCA, PHA-E4, PNA, RCA120, UEA-I & WGA)	1 Set	682.70
SK3004821	Lectin Set II - Biotin (ABA, DSA, Lotus, MAM, PHA-L4, SBA & SSA)	1 Set	682.70

PROTEOGLYCANS

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Product Number	Description	Pkg Size	Price
SK2704251	Ab Human Dermatan Sulfate Proteoglycan, purified	0.2 mg	\$983.00
SK2704281	Ab Human Large Proteoglycan, purified	0.2 mg	983.00
SK2708041	Ab Mouse Heparan Sulfate Proteoglycan, purified	0.2 mg	1,201.20
SK3707151	Ab Neurocan/Rat, purified	0.2 mg	1,201.20
SK3707251	Ab Rat Phosphacan, purified	0.2 mg	1,198.20
SK3707401	Ab-Neuroglycan/Rat,(C1)(mo)(M),affin.	0.2 mg	1,190.40

IMMUNOLOGICALS

GLYCOSAMINOGLYCANS Product Pkg Size Number Description Price SK2704211 Ab Chondroitin-4-Sulfate, purified 0.2 mg \$983.00 SK2704231 Ab Chondroitin-6-Sulfate, purified 0.2 mg 983.00 SK2704261 983.00 Ab Heparan Sulfate, purified 0.2 mg SK2704271 Ab Keratan Sulfate, purified 0.2 mg 983.00 SK2704311 Ab Chondroitin Sulfate DDi-OS, purified 0.2 mg 983.00 SK2704321 Ab Chondroitin Sulfate DDi-4S, purified 0.2 mg 983.00 SK2704331 Ab Chondroitin Sulfate DDi-6S, purified 0.2 mg 983.00 SK3702551 Ab Heparan Sulfate, purified 0.2 mg 983.00 Ab Human D-Heparan Sulfate, purified SK3702601 0.2 mg 983.00 SK3706151 Ab Chondroitin Sulfate type D, purified 0.2 mg 1,201.20 SK3707101 Ab Chondroitin Sulfate A, purified 0.2 mg 1,201.20 SK3707201 0.2 mg Ab Chondroitin, purified 1,198.20 SK3707301 Ab-Heparan Sulfate(JM-403 epitope)/Rat,(JM-403)(mo)(M),Purif. 0.2 mg 1,190.40 SK3707351 Ab-Heparan Sulfate(NAH46 epitope)/Rat,(NAH46)(mo)(M),Purif. 0.2 mg 1,207.40

GLYCOLIPIDS

Product Number	Description	Pkg Size	Price
SK2704401	Ab Sialyl Lewis X/Human, (2H5) (mo)(M), Supn.	0.2 mg	\$1,185.80
SK2704411	Ab Lewis X, purified	0.2 mg	719.80
SK2704421	Ab Lewis Y, purified	0.2 mg	719.80
SK2704431	Ab Sialyl Lewis A, purified	0.2 mg	719.80
SK2704441	Ab Sialyl Lewis A, purified	0.2 mg	719.80
SK2705531	Ab GD2 (Hu), purified	0.2 mg	1,037.20
SK2705541	Ab GD3 (Hu), purified	0.2 mg	1,037.20
SK2708951	Ab Human SD1a, purified	0.2 mg	964.40
SK2708971	Ab Human SM3, purified	0.2 mg	964.40
SK3706101	Ab Asialo GM1, purified	0.2 mg	964.40
SK3706201	Ab Lewis A, purified	0.2 mg	719.80
SK3706251	Ab Lewis B, purified	0.2 mg	719.80
SK3706301	Ab Ganglioside GD2 GMR7 (mo), purified	0.2 mg	1,037.20
SK3706351	Ab Ganglioside GD3 GMR19 (mo), purified	0.2 mg	1,037.20
SK3706401	Ab N-Acetyl GM2 MK1-16 (mo), purified	0.2 mg	1,044.90
SK3706501	Ab N-Glycolyl GM2 MK2-34 (mo), purified	0.2 mg	1,044.90
SK3706551	Ab Gal-Nac-GD1a, purified	0.2 mg	1,044.90
SK3706651	Ab Ganglioside GQ1b GMR13 (mo), purified	0.2 mg	962.80
SK3706701	Ab Ganglioside O-Ac-GD3 GMR2 (mo), purified	0.2 mg	962.80
SK3706751	Ab Ganglioside GT1b GMR5 (mo), purified	0.2 mg	976.80
SK3706801	Ab Gb3 (CD77) BGR23 (mo), purified	0.2 mg	1,027.90
SK3706901	Ab SGPG NGR50 (mo), purified	0.2 mg	1,198.20
SK3706951	Ab GM3 GMB6 (mo), purified	0.2 mg	795.70
SK3707001	Ab Ganglioside GT1a GMR11 (mo), purified	0.2 mg	1,044.90
SK3707051	Ab GD1a (GMR17) (mo), purified	0.2 mg	1,044.90



Need Assistance?

Please contact Mike in our Technical Support Department at 1-888-593-5969 or tech@biolynx.ca

www.biolynx.ca

ENDOTOXIN TESTING



Associates of Cape Cod, Inc. (ACC) offers a full line of endotoxin and glucan detection products and services. *Limulus* Amebocyte Lysate (LAL) tests detect and quantify bacterial endotoxins extracted from the outer wall of gram negative bacteria. The critical component of the LAL reagents used in endotoxin tests is derived from blood cells (amebocytes) of the horseshoe crab, *Limulus polyphemus*. It contains the proteins of the blood clotting mechanism, which is triggered by endotoxins.

ACC Chromo-LAL

Endotoxin Kinetic Chromogenic Formulation

The Chromo-LAL lysate formulation, a co-lyophilized LAL and substrate reagent, is optimized for the kinetic chromogenic LAL test method in microplate readers. Chromo-LAL lysate is a buffered, stable and robust lysate, suitable for quantitative testing of a wide range of samples.



Sensitivity

The sensitivity of Chromo-LAL lysate, the kinetic chromogenic LAL assay, is defined as the lowest endotoxin concentration used in the endotoxin standard curve. The maximum sensitivity of Chromo-LAL is 0.005 EU/mL.

Sample:Lysate Ratio

In the Chromo-LAL test, reconstituted Chromo-LAL reagent can be used in a 100 μL volume in a sample:lysate ratio of 1:1.

Test Performance

The Chromo-LAL/sample mixture is incubated at $37 \pm 1^{\circ}$ C in a microplate reader equipped with a 405 nm filter. Software is used to construct the standard curve and calculate the endotoxin concentrations.

Reconstitution

Chromo-LAL lysate is reconstituted with LAL Reagent Water (LRW). It can also be reconstituted with Glucashield[™] buffer, a beta glucan inhibiting buffer, to render the assay endotoxin specific and prevent potential enhancement and false positives caused by glucans. Glucashield[™] buffer is available separately.

Product Number	Description	Pkg Size	Price
SKC0031	Chromo-LAL	3.2 mL	\$99.50

ACC ELx808[™] MICROPLATE READER

The ELx808[™] Incubating Microplate Reader can be used with Pyrochrome[®] lysate, Chromo-LAL lysate, or Pyrotell[®]-T lysate to perform chromogenic or turbidimetric assays. Software is sold separately. A computer is required.

This multi-channel incubating reader offers enhanced uniformity through independently monitored natural convection heaters and 4-zone temperature control for improved reproducibility in kinetic enzyme reactions.

Product Number	Description	Pkg Size	Price
SKPPS04	ELx808 [™] * Incubating Microplate Reader	Each	\$10,578.00
SKELXP	Universal Test Plate for ELx808 [™] *	Each	1,485.30
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ACC Pyrochrome®

Endotoxin Chromogenic Test Kit

The Pyrochrome[®] lysate formulation is a versatile quantitative chromogenic reagent that is used to perform both kinetic and endpoint assays in microplate readers.

Sensitivity

The sensitivity for chromogenic assays is determined by the lowest standard concentration on the standard curve used for the assay. The maximum sensitivity of the Pyrochrome[®] lysate is 0.005 EU/mL.

Sample:Lysate Ratio

In the Pyrochrome[®] test, reconstituted Pyrochrome[®] LAL reagent can be used in 50 μ L or 100 μ L volumes in a sample:lysate ratio of 1:1.

Test Performance

The Pyrochrome[®]/sample mixture is incubated at $37\pm 1^{\circ}$ C and read in a microplate reader equipped with a 405 nm filter or 540-550 nm filter for diazo method. Software is used to construct the standard curve and calculate the endotoxin concentrations.

Reconstitution

Pyrochrome[®] lysate is reconstituted with an optimized reaction buffer, included with each kit. Pyrochrome[®] lysate can also be reconstituted with Glucashield[™] buffer, a beta glucan inhibiting buffer, to render the assay endotoxin specific and prevent potential enhancement and false positives caused by glucans. Glucashield buffer is available separately.

Diazo kits for Endotoxin end point testing

The Pyrochrome[®] kit is also offered in a diazo kit for end-point tests. The diazo reagents shift the optical absorbance wavelength making it especially useful for testing samples with color interference. The test is read at 540-550 nm.

Product Number	Description	Pkg Size	Price
SKC1500 SKCD060	Pyrochrome [®] Test Kit Pyrochrome [®] Test Kit with Diazo-Reagents	60 tests 60 tests	\$109.70 197.50



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ENDOTOXIN TESTING

ACC Pyrotell[®]-T

Turbidimetric Formulation

Pyrotell[®]-T lysate is used to quantify endotoxin in kinetic LAL tests. Pyrotell[®]-T lysate can be used with the Pyros Kinetix[®] tube reader and also incubating microplate readers. When used with the Pyros Kinetix[®] tube reader, Pyrotell[®]-T gives a highly economic, flexible and sensitive LAL assay. Pyrotell[®]-T lysate is the most sensitive LAL test available. It can be used for a wide variety of endotoxin tests, ranging from standard water testing to samples requiring high dilutions, such as intrathecal products and those requiring high dilutions to overcome interference.

Sensitivity

The sensitivity of any kinetic assay is determined by the lowest concentration used to construct the standard curve. The unique formulation of Pyrotell[®]-T lysate allows a wide range of standard curves to be used, giving the user flexibility, speed, and ease in performing assays. When used in a Microplate reader, the lowest sensitivity is 0.005 EU/mL; when used in a Pyros Kinetix[®] tube reader, the lowest sensitivity is 0.001 EU/ mL; this is 5 times more sensitive than microplate reader assays.

Sample:Lysate Ratio

The ratio of sample to lysate is partly determined by the method used and partly by personal preference. A sample:lysate ratio for Pyrotell[®]-T of 1:1 and 4:1 can be used according to validation and instrumentation requirements.

Test Performance

The sample and lysate are added to test tubes or a Microplate and incubated at 37° C. The time of incubation is dependent on the lowest standard concentration in the standard curve. Software is used to construct the standard curve and calculate the endotoxin concentrations.

Reconstitution

Pyrotell[®]-T lysate may be reconstituted with 5 mL of LAL Reagent Water (LRW) (or equivalent), Pyrosol[®] buffer, or Glucashield[™] buffer, depending on the demands of the sample being tested. Pyrosol[®] buffer provides extra pH buffering capacity. Glucashield[™] buffer, a beta glucan inhibiting buffer is used to render the assay endotoxin specific and prevent potential enhancement and false positives caused by glucans. Glucashield[™] buffer is available separately.

Product Number	Description	Pkg Size	Price
SKT0051	Pyrotell®-T Sufficient for approximately 96 tests (when used with the Pyros Kinetix® tube re or 48 tests (when used in a microplate rea		\$87.50

ACC Pyrotell®

Gel-clot Formulation

Pyrotell[®] lysate was the first LAL gel-cot reagent licensed by the US FDA. It is easy to use and is available in both economical multi-test vials and convenient Single test Vials (STV's). Pyrotell[®] lysate is a robust reagent, producing firm, easily read clots and is resistant to interfering substances. The gel-clot test does not require sophisticated capital equipment and software and is the simplest LAL test to implement.



Sensitivity

Pyrotell[®] lysate is available in multiple sensitivities: 0.03 EU/mL; 0.06 EU/mL; 0.125EU/mL; 0.25 EU/mL and 0.5 EU/mL (Single test vials only).

Sample/Lysate Ratio

For standard use, a 1:1 mixture of Pyrotell® lysate to sample is used.

Test Performance

For 2 mL and 5 mL multi-test vials, 100 μ L of lysate is mixed with 100 μ L of sample in a reaction tube. For single test vials 200 μ L of sample is added to the vial, which serves as a reaction tube. Test tubes are incubated at 37°C for 60 minutes \pm 2 minutes. A positive test is indicated if the clot remains solid after the inversion of the test tube.

Reconstitution

Pyrotell[®] lysate may be reconstituted with LAL Reagent Water, Glucashield[™] buffer or Pyrosol[®] buffer. Glucashield[™] buffer, a beta glucan inhibiting buffer is used to render the assay endotoxin specific and prevent potential enhancement and false positives caused by glucans. Glucashield[™] buffer is available separately.

Product Number	Description	Sensitivity	Pkg Size*	Price
SKG5003	Multi-Test Pyrotell®	0.03 EU/mL	5 mL	\$83.50
SKG5006	Multi-Test Pyrotell®	0.06 EU/mL	5 mL	83.50
SKG5125	Multi-Test Pyrotell®	0.125 EU/mL	5 mL	83.50
SKG5250	Multi-Test Pyrotell®	0.25 EU/mL	5 mL	83.50

* Pyrotell[®] is also available in multi-test 2 mL vials and single-test vials with variable sensitivities ranging from 0.03 up to 0.5 EU/mL. Please contact our Technical Support Department for the full range of Pyrotell[®] products.

ACC Pyros Kinetix[®] INCUBATING KINETIC TUBE READER

The Pyros Kinetix[®] tube reader was designed specifically for kinetic turbidimetric endotoxin testing. The instrument offers a 96 tube capacity. In addition, each well is independently timed, allowing the operator to add more samples while a run is in progress. Software is sold separately. A computer is required.

Product Number	Description	Pkg Size	Price
SKPKX02	Incubating Kinetic Tube Reader	Each	\$16,953.30



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ENDOTOXIN TESTING

ACC LAL REAGENT WATER (LRW)

LRW is specially processed water intended for reconstitution of LAL reagents and CSE, and to dilute samples and standards for LAL assays. Not for human or animal injection.

Product Number	Description	Pkg Size	Price
SKW0504	LAL Reagent Water	5.5 mL	\$17.50
	LAL Reagent Water	50 mL	28.80
SKWP0501	LAL Reagent Water (Plastic Bottle)	50 mL	15.90
SKW1004	LAL Reagent Water	100 mL	31.80

ACC Pyrosol® LAL RECONSTITUTION BUFFER

Pyrosol[®] buffer is an FDA Approved buffer recommended for reconstituting Pyrotell[®] or Pyrotell[®]-T lysate when testing strong electrolytes, strongly buffered solutions and solutions that are difficult to adjust within the required pH range using an acid or base. Pyrosol[®] buffer is also available with a pH indicator for gel-clot applications.

Product Number	Description	Pkg Size	Price
SKBR051	Pyrosol [®] Buffer with pH indicator	5.5 mL	\$17.90
SKBC051	Pyrosol [®] Buffer without pH indicator	5.5 mL	18.90
SKBC554	Pyrosol [®] Buffer without pH indicator	55 mL	63.70



ACC Pyrotubes®

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- Ideal for use with endotoxin testing products from Associates of Cape Cod (ACC)
- Certified to be free of interfering endotoxin and (1,3)-ß-D-Glucan contamination
- Designed to reduce Out of Specification (OOS) investigations due to contaminated disposables

Product Number	Description	Pkg Size	Price
SKTS050	10 x 75 mm Soda Lime Glass Tube for Gel-Clot Method	50	\$41.80
SKTB050	10 x 75 mm Borosilicate Glass Tube for Turbidimetric Method	50	41.80
SKTB240	12 x 75 mm Borosilicate Glass Tube for Dilutions	40	41.80
SKTB013	13 x 100 mm Borosilicate Glass Tube for Dilutions	18	27.80
SKTK100	8 x 75 mm Borosilicate Glass Tube for Pyros Kinetix Tube Reader	100	39.30



ACC Glucashield[™] BETA GLUCAN INHIBITING BUFFER

Glucashield[™] buffer is used to reconstitute LAL and render the reagent insensitive to glucan interference by effectively blocking the Factor G pathway of the endotoxin clotting cascade. For use with Pyrotell[®] lysate (multi-test vials), Pyrotell[®]-T lysate, Pyrochrome[®] kits and Chromo-LAL lysate.

Product Number	Description	Pkg Size	Price
SKGB051	Beta Glucan Inhibiting Buffer	5.5 mL	\$21.60

ACC CONTROL STANDARD ENDOTOXIN (CSE)

Standard controls for LAL testing

Control Standard Endotoxin (CSE) is a widely used standard for endotoxin testing. It is a purified extract of *E. coli*/O113:H10, the same endotoxin as the USP and EP reference standard endotoxin (RSE).

- CSE is a premium, stable, preparation of endotoxin that can be used in all LAL testing
- CSE is especially useful for depyrogenation studies, e.g., oven control vials
- Certificates of Analysis for each CSE-lysate lot combination give users greater security when testing because the potency is known precisely
- CSE can be reconstituted to achieve specific endotoxin concentrations

Reconstitution

CSE is reconstituted with LRW (or equivalent). Please refer to the Certificate of Analysis when using CSE. A Certificate of Analysis exists for each CSE-lysate lot combination.

Product Number	Description	Pkg Size	Price
SKE0005	Control Standard Endotoxin - Escherichia coli O113:H10	0.5 μg	\$33.80
SKE0125	Control Standard Endotoxin - Escherichia coli O113:H10	125 µg	95.30
SKEC010	Control Standard Endotoxin - Escherichia coli O113:H10 for use with Pyrochrome [®] kits	5 x 10 ng	71.60
SKPC010	Positive Control for Single Test Vial, CSE concentration is 0.1 ng/mL	10 x 0.2 mL	73.60

1-888-593-5969

ACC Pyrosate[®] Kit

Rapid Endotoxin Detection*

The Pyrosate[®] kit is a major advance in LAL gel-clot testing. The assay does not require special training or laboratory supplies. The step-by-step illustrated instructions allow the user to perform assays within minutes. The Pyrosate[®] kit provides rapid results and is especially convenient for testing water and dialysate as no dilutions are required.

Sensitivity

The Pyrosate[®] kit is available in two sensitivities: 0.25 EU/mL and 1.0 EU/mL. These sensitivities can be achieved in less than 30 minutes, much less time than required for other gel-clot assays.

Test Performance

The Pyrosate[®] kit is the only rapid gel-clot test that contains a $2\lambda^{**}$ endotoxin tube (PPC) matched to the sample (SPL) tube for each sensitivity. This feature is unique to the Pyrosate[®] assay and ensures the validity of the test. The endotoxin tube (PPC) assures that the sample does not interfere with the test, ruling out false negatives. The Pyrosate[®] kit was also designed to eliminate false positives due to LAL Reactive Materials such as (1→3)-ß-D-glucans. This endotoxin specific LAL formulation does not require additional blocking buffers.

Reconstitution

Pyrosate[®] lysate is reconstituted directly with the sample by adding 0.5 mL to the sample (SPL) tube. After approximately 60 seconds of gentle mixing, 0.25 mL is transferred to the endotoxin (PPC) tube. The incubation time at 37°C is specified in the Certificate of Compliance.

Product Number	Description	Sensitivity	Pkg Size*	Price
SKPSD10	Pyrosate [®]	0.25 EU/mL	10 tests	\$149.20
SKPSD101	Pyrosate [®]	1.0 EU/mL	10 tests	149.20
SKPSD25	Pyrosate [®]	0.25 EU/mL	25 tests	283.30
SKPSD251	Pyrosate [®]	1.0 EU/mL	25 tests	283.30

- May be used for all endotoxin testing applications not requiring FDAlicensed LAL.
- ** λ(lambda) is the least concentration of endotoxin to cause a positive test result under standard conditions.

ACC SOFTWARE

Pyros EQS Software

- Includes all of the features to enable compliance with 21 CFR Part 11
- Multiple access levels for improved security, detailed audit trails, and built-in trending by date range, technician, instrument, and LAL lot
- Runs the Pyros Kinetix[®] tube reader
- Incorporates electronic signatures, a Supervisor sign-off on completed tests, two choices for calculating CVs, and a new summarized Pass/ Fail Report
- Windows[®] XP compatible

Gen5 Secure Software

- Customized 21 CFR Part 11 compliant software for use wth the ELx808 Incubating Microplate Reader
- Designed workflow from reading parameters, to plate layout, to powerful data reduction and flexible data output options
- Flexible multi-user permission levels, electronic protocol and data signing
- Windows 2000/XP/Vista compatible

Product Number	Description	Pkg Size	Price
SKPEQS11	Pyros EQS Software	Each	\$4,513.70
SKGEN5SECURE	Gen5 Secure Software	Each	4,781.70

*Trademark of Bio-Tek Instruments, Inc.



Products are for Laboratory Research Use Only.

ACC VALIDATION PROTOCOLS AND VERIFICATION PACKAGE

Validation Protocols provide the end user with a comprehensive set of integrated documents to guide them through the system validation process. A Validation Plan outlines the tasks and documentation required to perform the validation. A Requirements Specification, the foundation of the validation process, clearly delineates the system's required functions and expected performance. Detailed instructions guide users step-bystep through the IQ/OQ, and PQ processes. Stress Test procedures are included as well as Change Control and Maintenance guides. A CD containing the protocol files in Microsoft[®] Word format allows users to edit the documents to meet their company's specific validation requirements.

Product Number	Description	Pkg Size	Price
SKPEQS11VAL	Pyros EQS Validation Protocol Package	Each	\$3,984.80

GLUCAN DETECTION

ACC Glucatell[®] KIT

(1→3)-ß-D-Glucan Detection

The Glucatell[®] assay kit is specific for $(1 \rightarrow 3)$ -ß-D-glucan. The assay is based upon a modification of the *Limulus* Amebocyte Lysate (LAL) pathway. The Glucatell[®] reagent is modified to eliminate Factor C, and is therefore specific for $(1 \rightarrow 3)$ -β-D-glucan. The reagent does not react to other polysaccharides, including beta-glucans with different glycosidic linkages. The kits are available in both kinetic and end-point diazo formats.

Sample:Lysate Ratio

Kinetic Assay:	25 μL of sample or standard is mixed with100 μL
	of reagent in a microplate.
End-point Assay:	50 μ L of sample is mixed with 50 μ L of reagent
	in a microplate.

Test Performance

<u>Kinetic Assay</u>: The Glucatell[®]/sample mixture is incubated at $37^{\circ}C \pm 1^{\circ}C$ in a microplate reader equipped with a 405 nm filter and analyzed over time by a suitable software program.

<u>End-point Assay</u>: The Glucatell[®]/sample mixture is placed in a microplate heating block at 37°C ± 1°C for the recommended time period. 50 μ L each of the three diazo reagents are added to the mixture to stop the reaction, which is then read at 540-550 nm. Concentration of the samples is analyzed by a suitable software program.

Packaging

The Glucatell[®] kit is available as either an end-point or kinetic chromogenic assay for use in microplates. The kit contains the Glucatell[®] reagent, a $(1\rightarrow 3)$ -ß-D-glucan standard, buffer, diazo reagents (end-point kit only), glucan-free water, and glucan-free microplates.

Product Applications

- Analyzing final products for (1→3)-ß-D-glucan
- Investigating LAL Out of Specification results
- Qualifying raw materials
- Monitoring cellulosic filter extractables
- Monitoring fungal fermentation processes
- Analyzing fermentation and cell culture media
- Monitoring airborne glucan burden
- Monitoring immunological adjuvant studies (e.g. tumor therapy)

1-888-593-5969





Product Number	Description	Pkg Size	Price
SKGT004	Glucatell [®] Kit Kinetic assay	55 tests	\$368.50
SKGT002	Glucatell [®] Kit Kinetic assay	110 tests	673.40
SKGT003	Glucatell [®] Kit With diazo-reagents for end-point assays	55 tests	397.80
SKGT001	Glucatell [®] Kit With diazo-reagents for end-point assays	110 tests	744.60

MJS BioLynx Inc.



Principles of Glucatell® reagent.

Amebocytes collected from the hemolymph of *Limulus polyphemus* are washed and then lysed. This lysate is processed to remove Factor C making the lysate specific for the glucan pathway. Glucatell[®] is then formulated as a chromogenic lysate by adding Boc-Leu-Gly-Arg-pNA. (1-x3)-B-D-glucan in the test sample (or standard) activates Factor-G, which then activates the proclotting enzyme. The clotting enzyme cleaves p-nitroaniline (pNA) from the chromogenic peptide substrate. The free pNA is measured at 405 nm (kinetic assay) or alternatively, the pNA is diazotized to form a compound that absorbs at 540-550 nm (endpoint assay). The Glucatell[®] reagent is used in either a kinetic assay or an end-point assay.

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MYCOPLASMA DETECTION AND ELIMINATION

Mycoplasmas are parasitic bacteria that frequently contaminate tissue cultures and consequently also virus stocks, vaccines, and other biological materials produced in cells. The contamination can originate from serum, laboratory staff, other contaminated cultures, or the donors from which the cells have been harvested, and it often remains unnoticed. Although mycoplasmas do not cause visible cell damage, they seriously affect cell growth and metabolism, transfection efficiency, protein and monoclonal antibody synthesis, cytokine secretion, immunological properties, signal transduction, virus proliferation and can even cause DNA and RNA damage.

PROMOCELL MYCOPLASMA TEST KIT

PCR Mycoplasma Test Kit I/C

The PCR Mycoplasma Test Kit I/C utilizes conventional PCR technology for convenient and specific detection of more than 25 contaminating mycoplasma species. The primer set is specific for the highly conserved 16S-rRNA coding region in the mycoplasma genome. The test can be performed in 3 hours and includes internal control DNA (for verifying a successful PCR run) as well as positive control DNA. All components required for the PCR (primers, nucleotides, internal control DNA) come optimally premixed and lyophilized in PCR tubes (except the Taq polymerase).

Product Number	Description	Pkg Size	Price
PROPKCA911024	PCR Mycoplasma Test Kit I/C	24 tests	\$159.00
PROPKCA911048	PCR Mycoplasma Test Kit I/C	48 tests	299.00
PROPKCA911096	PCR Mycoplasma Test Kit I/C	96 tests	499.00

PROMOCELL DISINFECTANT

Mycoplasma-EX Spray

Mycoplasma-EX Spray allows safe disinfection and cleaning of all laboratory surfaces and apparatuses, including work benches, incubators, cell storage boxes, and liquid nitrogen containers. It utilizes the powerful Mycoplasma-EX reagent in combination with an alcohol-based solution. Besides its strong mycoplasmacidal activity, it is very effective against *Staphylococcus aureus, Streptococcus faecalis, Escherichia coli, Proteus mirabilis, Pseudomonas aeruginosa, Candida albicans, Mycobacteria, HBV/HIV, Papova, Adeno, Polio and Vaccinia* viruses.

Product Number	Description	Pkg Size	Price
PROPKCC915050	Mycoplasma-EX Spray	500 mL	\$25.00
PROPKCC9150505L	Mycoplasma-EX Spray	5 L	199.00

GREINER MycoDtect[™] MYCOPLASMA TEST KIT

MycoDtect[™] test kit is based on the hybridization of fluorescently labeled mycoplasma targets to the MycoDtect[™] DNA-array. A universal mycoplasma DNA-probe tests for the presence of all mycoplasma species (including *Acholeplasma spec., Spiroplasma spec.* and *Ureaplasma spec.*). Simultaneously, nine species-specific probes detect which of the most common mycoplasma species may be present. This can then be used to identify and treat the source of contamination.

MycoDtect[™] Features and Benefits

- Ready-to-use kit including PCR-Mastermix, DNA-chips, hybridization and wash buffers
- Rapid detection of all mycoplasma species
- Species-level identification of the nine most common mycoplasma contaminants
- Detects even low levels of contamination before they become more widespread
- Includes CheckReport[™] software which automatically generates an electronic report as part of the testing process
- Can be used in conjunction with CheckScanner[™] microarray scanner (sold separately)



Product Number	Description	Pkg Size	Price
GR463060	MycoDtect [™] kit for detection of mycoplasma	60 tests	\$716.20
GR862070	CheckScanner [™] microarray scanner	Each	39,700.00

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MICRONIC BIOMATRICA DNAstable®

* Based on accelerated aging studies.

Stabilize and store purified DNA at room temperature

DNAstable® enables you to preserve and store your purified DNA samples at room temperature for at least 30 years*. When you are ready to use your sample, it can be fully recovered in minutes without any additional purification steps.

Features

Product

- Stabilize DNA at room temperature for at least 30 years*
- Recover quantitative yield and use without further purification
- Samples can be used in many downstream applications, e.g., PCR,
 - Real-Time PCR, sequencing, microarrays

Benefits

- Saves laboratory space
- Easy sample handling
- Avoids freezer temperature fluctuations and sample degradation
- Smart back-up storage option



Price \$36.20 103.00 60.40 114.70

Number	Description
MSMB10000 MSMB10001 MSMB10002 MSMB10004	DNAstable [®] Trial Kit, (3) DNAstable [®] tubes, 1 resealable sample pouch DNAstable [®] Tube Kit, (25) DNAstable [®] tubes, 1 resealable sample pouch DNAstable [®] 96-well Plate ^{**} , (1) DNAstable [®] 96-well plate, 1 foil seal, 1 resealable DNAstable [®] 384-Well Plate ^{**} , (1) 384-well plate
** Larger packag	e sizes and Alpha Numeric are also available — please inquire.
MICRONIC B	IOMATRICA RNAstable [®]
Stabilize and sh	ip RNA at room temperature
DNIA atable® an ab	les un temperature and chie un tetral DNA and miDNA conductions of neuron temperature. Veu

RNAstable® enables you to preserve and ship your total RNA, mRNA, and miRNA samples at room temperature. You can also store your RNA at room temperature for at least 12 years. When you are ready to use your sample, it can be fully recovered in minutes without any additional purification steps.

Benefits

Shipping at room temperature

- No dry ice required
- Reduced shipping cost
- Avoid temperature fluctuations

Store at room temperature Smart back up storage option

- Compatible with any downstream application
- RT-PCR, RT-qPCR, Sequencing, microarrays

Product Number	Description	Price
MSMB10014	RNAstable® Trial Kit, (3) RNAstable® tubes, (1) Tube Sterile Water, (1) resealable sample pouch	\$36.20
MSMB10015	RNAstable® Tube Kit**, (25) RNAstable® tubes, (1) Tube Sterile Water, (2) resealable sample pouches	119.50
MSMB10016	RNAstable [®] 96-well Plate, (1) 96-well Plate, (2) Tubes Sterile Water, (1) resealable sample pouch	119.50
MSMB10017	RNAstable® 96-well Plates Pack**, (10) 96-well Plate, (20) Tubes Sterile Water, (10) resealable sample pouches	1,098.60
MSMB10027	Sample Storage Pouches, Set of (10) moisture barrier foil bags and dessicants	18.10

** Larger package sizes and Alpha Numeric are also available — please inquire.

MICRONIC BIOMATRICA CloneStable®

Preserve and store bacterial DNA with CloneStable®

CloneStable® enables the long-term storage of unpurified bacterial plasmid and genomic DNA. DNA recovery is as simple as adding water.

CloneStable® protects the integrity of bacterial DNA at room temperature

- Transformation of crude E. coli lysates stabilized in CloneStable® at room temperature results in colony counts equivalent to freezer controls
- Zero sample degradation means increased reproducibility Room temperature storage decreases archive and transport cost
- Streamlined clone handling
- · Apply bacteria cultures directly to CloneStable®; no prior purification needed
- Store samples at room temperature
- Add water for rapid and complete sample recovery
- Use hydrated samples directly in downstream applications such as transformation and PCR amplification

Product Number	Description	Price
MSMB10018	CloneStable® Trial Kit, (3) CloneStable® tubes	\$36.20
MSMB10019	CloneStable® Tube Kit, (25) CloneStable® tubes	102.60
MSMB10020	CloneStable® 96-well Plate**, (1) 96-well plate	60.40
MSMB10022	CloneStable® 384-Well Plate Pack, (1) 384-well plate	119.50

** Larger package sizes and Alpha Numeric are also available -- please inquire.







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USB CHROMATIN IMMUNOPRECIPITATION (ChIP) ASSAY KIT

The Chromatin Immunoprecipitation (ChIP) assay is a powerful tool to study protein:DNA interactions in their native chromatin context. This technique enables researchers to identify where a given gene regulatory protein is bound in the genome of a living cell and the position within a regulatory region that is associated with histone modification. ChIP is becoming the method of choice for studying transcriptional regulation in eukaryotic cells.

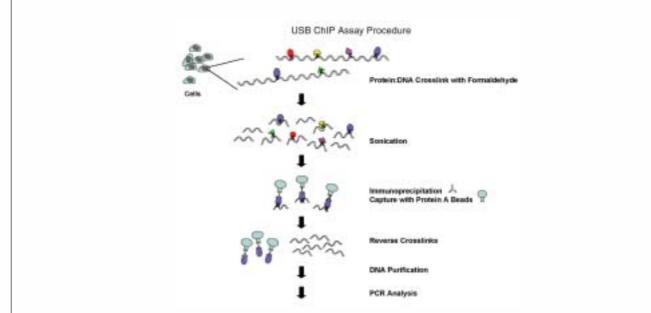
ChIP Assay Kit Features and Benefits

- · Analyze in vivo interaction of protein-DNA in the genome
- Convenient kit provides functionally tested components
- Optimized reagent and protocol
- · Recovered DNA can be analyzed using PCR or used as microarray probes

ChIP Method

- Intact cells are fixed with a reversible cross-linking reagent (ie. formaldehyde) to form protein:DNA complexes
- The chromatin is then mechanically sheared (ie. by sonication) to generate small protein:DNA fragments
- · These fragments are immunoprecipitated with antibodies specific for the protein of interest and Protein A agarose beads
- Following immunoprecipitation, the crosslinks are reversed and the DNA is isolated. The isolated DNA can then be analyzed using primers designed to amplify a known regulatory region
- The versatility of ChIP means that screening can be done using generalized hybridization or a more targeted PCR-based approach

Although the ChIP assay is technically challenging, USB has developed an effective procedure and provides an optimized and convenient reagent set including buffers, Protease Inhibitor Cocktail, BSA/DNA pre-blocked Protein A agarose beads, Proteinase K and RNase A. Excess buffer is provided for the user to optimize conditions. The protocol is designed for cells grown on a 150 mm culture plate but smaller cultures can be used simply by scaling down.



Outline of Chromatin Immunoprecipitation (ChIP) Assay

Protein:DNA crosslinks are formed with formaldehyde followed by chromatin fragmentation by sonication. The DNA:protein complexes are immunoprecipitated with antibodies specific for the protein of interest and Protein A agarose beads. The crosslinks are reversed and the DNA is isolated for analysis.

Product Number	Description	Pkg Size	Price
UB78460	Chromatin Immunoprecipitation (ChIP) Assay Kit Includes: Lysis Buffer High Salt Buffer Lithium Salt Buffer TE Buffer, pH 7.5 Elution Buffer Protease Inhibitor Cocktail, 100x Protein A Agarose Beads Proteinase K RNase A 1.25M Glycine 5M NaCl	Kit (25 ChIP assays)	\$322.30



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MOLECULAR BIOLOGY

NUCLEIC ACID ISOLATION

MACHEREY-NAGEL BIOANALYSIS

Since 1993 Macherey-Nagel has been successfully developing and producing a comprehensive range of ready-to-use kits and consumables for purification of nucleic acids (DNA and RNA) and proteins. The products cover a broad range of applications and thus, allow a one-stop-shopping. They provide innovative bio-separation technologies and outstanding products for academic, industrial, and clinical research in the area of life science research, genomics, nucleic acid based molecular diagnostics, genetic identity (e.g. with a view to forensics, GMO detection / quantification as well as animal species differentiation), gene expression profiling, gene therapy, and proteomics.

The following technologies are the core of an extensive portfolio of readyto-use kits and consumables suitable for manual and automated purification of highly pure nucleic acids and proteins.

- Silica-based anion exchanger NucleoBond[®]
- Silica-based membrane technology NucleoSpin[®]
- Beads based on silica or latex NucleoTrap[®]
- Ultrafiltration technology NucleoFast
- Magnetic beads NucleoMag
- Affinity chromatography Protino[®]
- Gel-filtration technology NucleoSEQ

MACHEREY-NAGEL NucleoBond® PLASMID

Anion-exchange based DNA purification

NucleoBond® AX is a silica-based anion exchanger for routine separation of different classes of nucleic acids. The extraordinary high charge density on its hydrophilic, macroporous surface results in a salt concentration range for binding and elution of nucleic acids which is much larger than on conventional anion exchangers.

All NucleoBond[®] AX columns are resistant to organic solvents like alcohol, chloroform and phenol. They are free of RNase and DNase. NucleoBond[®] AX columns are easy to handle. Solutions are pipetted or just poured into the columns. Their flow through the exchanger bed is by gravity. The columns do not run dry.

- Anion-exchange chromatography
- Fast and versatile separation system
- Working range from nanograms to milligrams DNA
- Recovery of plasmid DNA > 90%





- NucleoBond[®] folded filters eliminate the centrifugation step - no shearing even for large constructs
- Structural integrity > 92% ccc monomer

	NucleoBond® PC 20	NucleoBond [®] PC 100	NucleoBond [®] PC 500	NucleoBond [®] PC 2000	NucleoBond® PC 10,000	NucleoBond [®] BAC 100
Column Size	AX 20	AX 100	AX 500	AX 2000	AX 10,000	BAC 100
Format	Mini	Midi	Maxi	Mega	Giga	Maxi
Lysate Clarification	Centrifuge	Folded Filters	Folded Filters	Folded Filters	Folded Filters	Folded Filter
Sample Material (high copy plasmid from <i>E. coll</i>)	1 – 5 mL	5 – 30 mL	30 – 150 mL	150 – 2000 mL	500 – 10,000 mL	N/A
Sample Material (low copy plasmid from <i>E. coll</i>)*	3 – 10 mL	10 – 100 mL	100 – 500 mL	N/A	N/A	100 – 500 mL
Vector Size	< 300 kbp	< 300 kbp	< 300 kbp	< 300 kbp	< 300 kbp	< 300 kbp
Typical Yield	3 – 20 µg	20 – 100 µg	450 – 520 μg	1700 – 2000 μg	5000 – 9000 μg	10 – 100 μg
A _{260/280}	1.80 – 1.95	1.80 – 1.95	1.80 – 1.95	1.80 – 1.95	1.80 – 1.95	1.80 – 1.95
Preparation Time	60 min/4-6 preps	65 min / 4-6 preps	80-90 min/4 preps	90-120 min/ 4-6 preps	120-150 min/ 2 preps	120 min/ 2-4 preps
Binding Capacity	20 µg	100 µg	500 µg	2000 µg	10,000 μg	100 μg

* Increased buffer volumes required for low copy plasmids. See product number MCN740601 NucleoBond® Buffer Set I

Several kits are available to accommodate a wide range of purification needs:

- NucleoBond® PC kits contain NucleoBond® AX columns, all required buffers, reagents and accessories
- Nucleobond[®] PC EF (endotoxin-free) kits are available for purification of DNA with less than 0.1 EU/µg DNA for transfection of endotoxin-sensitive cells
- Nucleobond[®] BAC 100 Kit provides increased volumes of lysis buffers and RNase A for purification of large constructs (e.g. BACs, PACs, P1)

MACHEREY-NAGEL NucleoBond® Xtra Midi/Maxi

The new generation of anion-exchangers — ultra-fast plasmid preps with high yields

Macherey-Nagel has developed NucleoBond[®] Xtra, a new generation of anion exchangers based on the patented NucleoBond[®] technology. With NucleoBond[®] Xtra typical yields of \ge 250 µg (Midi) or \ge 1000 µg (Maxi) of ultra-pure plasmid DNA can be obtained in about half of the time when compared to other Midi and Maxi kits based on anion-exchange chromatography.

- Preparation time decreased by 60%
- Increased yield of transfection-grade plasmid DNA up to 100%
- Anion-exchange technology results in the highest purity of plasmid DNA
- NucleoBond[®] Xtra Plus kits contain NucleoBond[®] Finalizers that speed up DNA precipitation
- Optimized buffer compositions increase efficiency of alkaline lysis and flow rate resulting in an increase in DNA recovery
- NucleoBond[®] Xtra Midi/Maxi EF (endotoxin-free) kits are available for the purification of DNA with less than 0.05 EU/µg DNA

NucleoBond® Xtra columns:

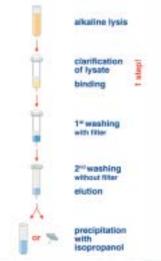
- High column flow through rates due to their large diameter and low silica resin bed
- Contain improved silica material with higher DNA binding capacity resulting in higher yields

	NucleoBo	nd® Xtra Midi	NucleoBond [®] Xtra Max		
Format	Gravity flov	v columns	Gravity flow columns		
Lysate Clarification	Column Filters		Column Filters		
Sample Material	< 200 mL (high copy) < 400 mL (low copy*)		< 600 mL (high copy) < 1200 mL (low copy*)		
Vector Size	< 300 kbp		< 300 kbp		
Typical Yield	250 μg		1000 µg		
A _{260/280}	1.80 - 1.95	i	1.80 – 1.95		
	Xtra Midi	Xtra Midi	Xtra Maxi	Xtra Maxi	

		Plus		Plus
Isopropanol Precipitation	Centrifuge	NucleoBond® Finalizer	Centrifuge	NucleoBond® Finalizer
Preparation Time	68 min/ 4 preps	28 min/ 4 preps	80 min/ 4 preps	34 min/ 4 preps

* Increased buffer volumes required for low copy plasmids. See product number MCN740417 NucleoBond[®] Xtra Buffer Set I

NucleoBond® Xtra Procedure



Product Number	Description	Pkg Size	Price
MCN740571	NucleoBond [®] PC 20 Kit Includes: NucleoBond [®] AX 20 Columns Buffers and RNase A	Kit	\$148.40
MCN740573	NucleoBond [®] PC 100 Kit Includes: NucleoBond [®] AX 100 Columns, 20 Folded Filters, Buffers and RNase A	Kit	206.30
MCN740574	NucleoBond [®] PC 500 Kit Includes: NucleoBond [®] AX 500 Columns, 10 Folded Filters, Buffers and RNase A	Kit	197.30
MCN740576	NucleoBond [®] PC 2000 Kit Includes: NucleoBond [®] AX 2000 Columns, 5 Folded Filters, Buffers and RNase A	Kit	232.10
MCN740593	NucleoBond [®] PC 10 000 Kit Includes: NucleoBond [®] AX 10 000 Columns, 5 Folded Filters, Buffers and RNase A	Kit	432.90
MCN740550	NucleoBond [®] PC 500 EF Kit Includes: NucleoBond [®] AX 500 Columns, 10 Folded Filters, Buffers EF and RNase	Kit A	287.80
MCN740549	NucleoBond [®] PC 2000 EF Kit Includes: NucleoBond [®] AX 2000 Columns, 5 Bottle Top Filters, Buffers EF and RN	Kit ase A	349.40
MCN740548	NucleoBond [®] PC 10 000 EF Kit Includes: NucleoBond [®] AX 10 000 Columns, 5 Bottle Top Filters, Buffers EF and RNa	Kit ase A	567.30
MCN740579	NucleoBond [®] BAC 100 Kit Includes: NucleoBond [®] BAC 100 Columns, 10 Folded Filters, Buffers and RNase A	Kit	292.50
MCN740562	NucleoBond [®] Small Rack For use with NucleoBond AX 20 Columns	Each	64.70
MCN740563	NucleoBond [®] Small Rack For use with NucleoBond AX 100, 500, 2000 &	Each 10,000 Colu	95.70 umns
MCN740601	NucleoBond® Buffer Set I Sufficient for 10 AX 500 columns and 20 AX 100 Set includes all buffers and RNase A	Set 0 columns.	77.40
MCN74041010	NucleoBond® Xtra Midi Includes: NucleoBond® Xtra Midi Columns with inserted NucleoBond® Column Filter, Buffers and RNase A		114.60
MCN74041210	NucleoBond [®] Xtra Midi Plus Includes: NucleoBond [®] Xtra Midi Columns with inserted NucleoBond [®] Column Filter, NucleoBond [®] Finalizers, 10 Buffers and RNase A		140.30
MCN74041410	NucleoBond [®] Xtra Maxi Includes: NucleoBond [®] Xtra Midi Columns with inserted NucleoBond [®] Column Filter, Buffers and RNase A	Kit 10	229.80
MCN74041610	NucleoBond [®] Xtra Maxi Plus Includes: NucleoBond [®] Xtra Midi Columns with inserted NucleoBond [®] Column Filter,1 NucleoBond [®] Finalizer Large, 10 Buffers and RNase A	Kit 10	253.00
MCN740415	NucleoBond [®] Xtra Combi Rack	Each	94.30
MCN740417	NucleoBond® Xtra Buffer Set I Includes: Buffer RES, LYS, NEU and RNase A	Set	63.30

* Please contact our Technical Support Department for the full range of NucleoBond[®] and NucleoBond[®] Xtra plasmid purification kits, package sizes or to request a sample.

www.biolynx.ca

MACHEREY-NAGEL NucleoSpin® PLASMID

Silica-membrane based DNA purification

NucleoSpin® technology is based on adsorption and desorption of nucleic acids in the presence of chaotropic salts. Under the hydrophobic conditions created by the chaotropic salts, DNA binds to the silica membrane. Proteins, metabolites and other contaminants do not bind to the membrane and therefore are removed during the washing steps.

NucleoSpin® Plasmid is designed for the rapid, small scale preparation of highpurity plasmid DNA. With the specific adsorption-desorption purification process of the time-saving silica membrane technology, highly pure DNA is readyto-use for common downstream applications such as sequencing, PCR, restriction analysis, hybridization. The kit allows purification of up to 25 µg plasmid DNA per preparation from 1 - 5 mL of a saturated E. coli culture. Up to 40 μg of plasmid DNA can be obtained when processing 5 - 10 mL E. coliculture.

- Silica-membrane technology
- Yields up to 40 µg of ready-to-use plasmid DNA
- 85% to 95% recovery ٠
- Sequencing grade plasmid DNA suitable for any kind of enzymatic • reaction
- Fast procedure: 18 minipreps in 25 minutes

NucleoSpin® Plasmid Procedure

MJS BioLynx Inc.

The NucleoSpin® Plasmid QuickPure column features a new specially treated silica membrane which allows to speed up the procedure by a combined washing/drying step. Contaminants like salts, metabolites, nucleases and soluble macromolecular cellular components are removed by a single washing step with buffer AQ.

- Yields up to 15 µg of ready-to-use plasmid DNA
- Ultra-fast procedure: 18 minipreps in 11 minutes

Product Number	Description	Pkg Size	Price
MCN74058810	NucleoSpin [®] Plasmid Kit, 10 preps Includes: NucleoSpin [®] Plasmid Columns, 2 mL Collecting Tubes, Buffers and RNase A	Kit	\$22.80
MCN74058850	NucleoSpin [®] Plasmid Kit, 50 preps	Kit	83.60
MCN740588250	NucleoSpin [®] Plasmid Kit, 250 Preps	Kit	286.40

* Please contact our Technical Support Department for the full range of NucleoSpin® Plasmid Purification kits, package sizes or to request a sample

MACHEREY-NAGEL NucleoSpin® PLANT II AND 96 PLANT II

Versatile Genomic DNA purification

NucleoSpin® Plant kits are designed for the isolation of genomic DNA from plant material, fungi and other biological samples, e.g. soil. The eluted DNA is ready-to-use for subsequent reactions such as PCR and restriction analysis.

- Complete removal of PCR inhibitors .
- Typical yields of 1 30 µg DNA
- Two alternative lysis buffers for optimal processing of various samples
- Time-saving 96-well format for manual or automated isolation available

Product Number	Description	Pkg Size	Price
MCN74077010	NucleoSpin [®] Plant II Kit, 10 Preps For sample sizes of up to 100 mg Includes: NucleoSpin [®] Plant II Columns, Filters, 2 mL Collecting Tubes, Buffers** and RNase A	Kit	\$38.00
MCN74077050	NucleoSpin [®] Plant II Kit, 50 Preps	Kit	168.80
MCN740770250	NucleoSpin® Plant II Kit, 250 Preps	Kit	596.80
MCN7406632	NucleoSpin® 96 Plant II Includes: Binding plates, MN Square-well Blocks, Racks with Tube Strips, Cap Strips, Gas-permeable Foil, Buffers, RNase A	2 x 96 plates	432.10
MCN7406634	NucleoSpin [®] 96 Plant II	4 x 96 plates	802.40
MCN74066324	NucleoSpin [®] 96 Plant II	24 x 96 plates	4,478.00

Please contact our Technical Support Department for the full range of NucleoSpin® Plant kits, package sizes or to request a sample Includes both lysis buffer PL1 (CTAB lysis method) and lysis buffer PL2 (SDS lysis method).

1-888-593-5969

DLECULAR BIOLOG

NUCLEIC ACID ISOLATION

MACHEREY-NAGEL NucleoSpin[®] BLOOD

DNA purification from whole blood

NucleoSpin[®] Blood Kits are designed for rapid purification of genomic DNA from whole blood, serum, plasma, and body fluids (amniotic fluid, etc.). Animal or human blood samples with citrate, EDTA, heparin, or CPDA, and frozen blood samples can be processed conveniently.

The obtained DNA can be used directly for PCR (e.g. HLA typing), southern blotting or any kind of enzymatic reaction.

- Silica-membrane technology
- Complete removal of PCR inhibitors
- DNA ready to use in less than 30 minutes
- Sample size: up to 200 μL
- Typical yield: 4 6 μg DNA
- Available in 3 column sizes

The NucleoSpin[®] Blood QuickPure Kit features a new specially treated silica membrane which allows speeding up the procedure by combining washing/drying steps. Hands-on time is less than 10 minutes.

Product Number	Description	Pkg Size	Price
MCN74095110	NucleoSpin [®] Blood Kit, 10 Preps For sample sizes of up to 200 μL Includes: NucleoSpin [®] Blood Columns, 2 mL Collection Tubes, Buffers and Proteinase K	Kit	\$31.70
MCN74095150	NucleoSpin [®] Blood Kit, 50 Preps For sample sizes of up to 200 μL Includes: NucleoSpin [®] Blood Columns, 2 mL Collection Tubes, Buffers and Proteinase K	Kit	123.90
MCN74056910	NucleoSpin [®] Blood QuickPure Kit, 10 Preps For sample sizes of up to 200 μL Includes: NucleoSpin [®] Blood QuickPure Columns, 2 mL Collection Tubes, Buffers and Proteinase K	Kit	31.70
MCN74056950	NucleoSpin [®] Blood QuickPure Kit, 50 Preps For sample sizes of up to 200 μL Includes: NucleoSpin [®] Blood QuickPure Columns, 2 mL Collection Tubes, Buffers and Proteinase K	Kit	125.10
MCN74095420	NucleoSpin [®] Blood L Kit, 20 Preps For sample sizes of up to 2 mL Includes: NucleoSpin [®] Blood L Columns, 15 mL Collection Tubes, 15 mL Elution Tubes, Buffers and Proteinase K	Kit	153.00
MCN74095010	NucleoSpin [®] Blood XL Kit, 10 Preps For sample sizes of up to 10 mL Includes: NucleoSpin [®] Blood XL Columns, 50 mL Collection Tubes, 50 mL Elution Tubes, Buffers and Proteinase K	Kit	153.00

* Please contact our Technical Support Department for the full range of NucleoSpin® Blood kits, package sizes or to request a sample.

MACHEREY-NAGEL NucleoSpin® TISSUE

Rapid purification of genomic DNA from tissue

NucleoSpin® Tissue is designed for the rapid purification of highly pure genomic DNA from tissue samples, mouse tails, bacteria, yeast, forensic samples (hair, dried blood spots, buccal swabs, cigarette filters), and clinical samples (stool, urine). The obtained DNA can be used directly for PCR, Southern blotting or any kind of enzymatic reaction.

- Silica-membrane technology
- Sample size: up to 25 mg tissue or 10⁷ cells
- Yield: up to 35 μg genomic DNA
- Spin columns can be closed no cross contamination
- Elution volume: 100 μL

Product Number	Description	Pkg Size	Price
MCN74095210	NucleoSpin [®] Tissue Kit, 10 Preps Includes: NucleoSpin [®] Tissue Columns 2 mL Collecting Tubes Buffers and Proteinase K	Kit	\$31.70
MCN74095250	NucleoSpin [®] Tissue Kit, 50 Preps Includes: NucleoSpin [®] Tissue Columns 2 mL Collecting Tubes Buffers and Proteinase K	Kit	136.00

* Please contact our Technical Support Department for the full range of NucleoSpin[®] Tissue kits, package sizes or to request a sample.

MACHEREY-NAGEL NucleoSpin® DNA TRACE DNA isolation from forensic samples

NucleoSpin[®] DNA Trace is designed for the preparation of highly pure genomic DNA from small amounts of any tissue, cell and forensic sample. DNA amounts in the nanogram range can be processed with high recovery.

Isolated DNA is ready-to-use for common downstream applications like PCR, real-time PCR or other enzymatic reactions.

- · Samples can be extracted with up to 8 mL lysis buffer
- Small elution volume: 100 μL
- Closed system no cross contamination

Product Number	Description	Pkg Size	Price
MCN7409424	NucleoSpin [®] DNA Trace Kit, 4 Preps Includes: NucleoSpin [®] Funnel Columns 50 mL Polyethylene Tubes with screw ca 0.5 mL Elution Tubes Buffers and Proteinase K		\$108.10
MCN74094225	NucleoSpin® DNA Trace Kit, 25 Preps Includes: NucleoSpin® Funnel Columns 50 mL Polyethylene Tubes with screw ca 0.5 mL Elution Tubes Buffers and Proteinase K	Kit aps	432.40

Please contact our Technical Support Department for the full range of NucleoSpin[®] DNA Trace kits, package sizes or to request a sample.



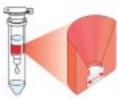
NUCLEIC ACID ISOLATION

MACHEREY-NAGEL NucleoSpin® Plasma XS

For rapid purification of circulating DNA from plasma and serum

NucleoSpin[®] Plasma XS is designed for the isolation of fragmented DNA larger than 50 bp from human EDTA blood plasma. The kit is overcoming the limitations of conventional kits such as large membrane diameter associated with large default elution volumes and a resulting DNA concentration which is too low to be directly used as PCR template.

The innovative new thrust ring in a funnel-design allows standard mini prep spin columns to hold a silica membrane of very small diameter. The small diameter of the NucleoSpin® Plasma XS membrane allows efficient elution in only $5-20 \ \mu L$ resulting in highest DNA concentrations that are ready for all typical downstream applications.



- High recovery of fragments > 50 bp
- Elution in only 5 μL
- Concentrated DNA even from dilute samples
- DNA ready-to-use for real-time PCR

NucleoSpin* Plasma X8 procedure



ready-to-use DNA

Product Number	Description	Pkg Size	Price
MCN74090010	NucleoSpin [®] Plasma XS, 10 Preps Includes: NucleoSpin [®] Plasma XS Colu Collection Tubes (2 mL), 10 Buffers and Proteinase K	Kit mns, 10	\$34.20
MCN74090050	NucleoSpin [®] Plasma XS, 50 Preps Includes: NucleoSpin [®] Plasma XS Coluc Collection Tubes (2 mL), 50 Buffers and Proteinase K	Kit mns, 50	157.00
MCN740900250	NucleoSpin [®] Plasma XS, 250 Preps Includes: NucleoSpin [®] Plasma XS Colum Collection Tubes (2 mL), 250 Buffers and Proteinase K	Kit Ins, 250	694.50

MACHEREY-NAGEL NucleoSpin® Tissue XS

Purification of genomic, bacterial, and viral DNA from smallest samples

The NucleoSpin® Tissue XS kit is designed for the efficient isolation of genomic DNA from small samples of different kinds of cells and tissues, such as laser micro-dissected samples, small amounts of blood, or dried blood spots and forensic samples. Due to a special funnel design the NucleoSpin® Tissue XS columns allow very small elution volumes (5 - 30 μ L) which results in highly concentrated DNA.

- · High sensitivity for DNA isolation from small sample amounts
- + Elution in only 5 μL resulting in concentrated DNA
- Reliable DNA purification for reproducible results
- High purity DNA ready-to-use for multiplex PCR and other sensitive applications

Sample material	Tissue samples: 0.025-10 mg Blood samples: 1-30 μ L, fresh or frozen Cultured cells: 10-10,000 FFPE tissue: 0.001-10 mg Guthrie cards: spots of 5-30 mm ²
Fragment size	200 bp- >30 kbp
Typical yield	100 HeLa cells: 0.1-0.5 ng 1000 HeLa cells: 1-5 ng 10000 HeLa cells: 10-50 ng 0.025 mg mouse liver: 20-100 ng 0.25 mg mouse liver: 200-1000 ng 2.5 mg mouse liver: 600-3000 ng
A _{260/280}	1.7-1.9
Elution volume	5-30 μL
Preparation time	~ 40 min/prep (excl. lysis)



M: DNA ladder C: negative control without DNA 1: 1 mm² 2: 0.5 mm²

- 3: 0.25 mm²
- 4: 0.125 mm² 5: 0.065 mm²

DNA purification from microdissected, formalin fixed paraffin-embedded (FFPE) Tissue. DNA was purified from microdissected FFPE colon cancer tissue with NucleoSpin[®] Tissue XS. Sample sizes were 1 mm², 0.5 mm², 0.25 mm², 0.125 mm², and 0.065 mm² of a 4 μ m slice. DNA was eluted in 15 μ l and subjected to PCR with PAH and K-RAS specific primers. NucleoSpin[®] Tissue XS allows purification of amplifiable DNA even from very small samples of FFPE tissue.

Data kindly provided by S. Staeck, Dr. D. Kuester, Dr. A. Poehlmann and Prof. R. Schneider-Stock, Department of Pathologie, Molecular Genetics, University of Magdeburg, Germany.

Product Number	Description	Pkg Size	Price
MCN74090110	NucleoSpin® Tissue XS, 10 Preps Includes: NucleoSpin® Plasma XS Colu Collection Tubes (2 mL), 10 Buffers and Proteinase K	Kit umns, 10	\$40.50
MCN74090150	NucleoSpin® Tissue XS, 50 Preps Includes: NucleoSpin® Plasma XS Colu Collection Tubes (2 mL), 50 Buffers and Proteinase K	Kit umns, 50	169.30
MCN740901250	NucleoSpin® Tissue XS, 250 Preps Includes: NucleoSpin® Plasma XS Colu Collection Tubes (2 mL), 250 Buffers and Proteinase K		757.40

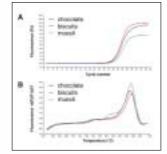
MACHEREY-NAGEL NucleoSpin[®] FOOD

For rapid small-scale isolation of genomic DNA from food and feed

Identification of GMO-DNA or animal components in food and feed has become an important application of public interest. In the novel food regulation, labeling has been mandatory for GMO containing food since they can be distinguished from conventional products by analytical methods, e.g. real-time PCR. Food samples are very heterogeneous and contain many different compounds like fat, cocoa or polysaccharides which can lead to suboptimal extraction or subsequent processing of DNA. Macherey-Nagel NucleoSpin® Food guarantees good recovery rates even for small genomic DNA fragments (< 1 kb) out of processed, complex food matrices (e.g. ketchup or spices), which generally have very low DNA contents as well as poor quality, degraded DNA.

- · Complete removal of PCR inhibitors resulting in high quality DNA
- Even low amounts of partially degraded DNA can be purified from complex matrices
- Fast and easy procedure
- · DNA from various sample materials giving the highest flexibility

Starting Material Type of Sample Food (plant origin) • Raw products such as maize, rape seed, etc. Chocolate products, cocoa, nougat products • Breakfast cereals, muesli, nut/chocolate spread · Jam and fruit concentrates · Cookies, cakes and biscuits Pollen • Lecithin Spices • Bread Food (animal origin) • Raw and processed products (meat, sausage, pie) Pharmaceuticals • Plant (starch) compounds in pharmaceuticals (e.g. tablets) Cosmetics • Plant and animal ingredients in products such as creams or powders Bacteria Starter cultures



DNA analysis with LightCycler[™] technology

NucleoSpin® Food purified DNA from three matrices was amplified with lectin-specific primers and SYBR-Green detection mode in a LightCycler system (A). Specific amplification was verified by a melting point analysis (B).

Product Pka Number Description Size Price MCN74094510 NucleoSpin[®] Food, 10 Preps Kit \$36.70 Includes: NucleoSpin® Food XS Columns, 10 Collection Tubes (2 ml), 10 Buffers, and Proteinase K MCN74094550 NucleoSpin® Food, 50 Preps 171.20 Kit Includes: NucleoSpin[®] Food Columns, 50 Collection Tubes (2 ml), 50 Buffers, and Proteinase K MCN740945250 NucleoSpin® Food, 250 Preps Kit 619.70 Includes: NucleoSpin® Food Columns, 250 Collection Tubes (2 ml), 250 Buffers, and Proteinase K

MACHEREY-NAGEL NucleoBond[®] RNA/DNA

Purify DNA and RNA from the same sample

NucleoBond[®] RNA/DNA 80 and 400 kits are designed for the isolation and purification of up to 80 or 400 µg ultra-pure total RNA. A special manufacturing process guarantees RNase-free handling. Due to the superior resolving power of the NucleoBond[®] anion exchanger, contaminations are washed away, and RNA and genomic DNA can be eluted separately.

- Anion-exchange chromatography
- Ultra-pure RNA from different sources
- Separate elution of genomic DNA is possible
- Isolation of different RNA species
- No organic solvents required

Product Number	Description	Pkg Size	Price
MCN740650	NucleoBond [®] RNA/DNA 80 Kit Sufficient for 25 Preps Includes: NucleoBond [®] AXR 80 Columns Buffers	Kit	\$205.00
MCN740651	NucleoBond® RNA/DNA 400 Kit Sufficient for 10 Preps Includes: NucleoBond® AXR 400 Columns Buffers	Kit	136.20

MACHEREY-NAGEL NucleoSpin® RNA/DNA BUFFER SET

Selective isolation of DNA or RNA from the same sample

Selective isolation of RNA and DNA from unique, precious samples is in demand for an increasing number of applications. Commonly, two independent preparations - one for RNA and one for DNA - are performed after splitting a sample. For certain samples, however, splitting is unfavorable if not impossible, e.g. biopsy samples or single individuals of small organisms (e.g. insects, worms). The NucleoSpin® RNA/DNA Buffer Set in combination with NucleoSpin® RNA II or NucleoSpin® RNA Plant, enables the separated isolation of RNA and DNA from one lysate and from one spin column.

The isolated DNA is...

- Eluted in low salt buffer (<10 mM bivalent cation, pH 7)
- PCR-grade: digestible with restriction enzymes
- Approximately 65% of the yield compared to a specialized kit

The eluted RNA is...

Of the same quality and quantity when compared to the standard protocol

Product Number	Description	Pkg Size	Price
MCN740944	NucleoSpin® RNA/DNA Buffer Set Sufficient for 100 DNA isolations in combination with NucleoSpin® RNA II or RNA Plant Kits Includes: Buffers, DNA Elute and DNA Wash	Kit	\$76.00

USB YEAST PLASMID ISOLATION KIT

This reagent kit is a miniprep kit for yeast cells. It is designed for the isolation of 2μ plasmids from yeast patches on plates or from yeast grown in small liquid culture. The isolation protocol eliminates the need for phenol/chloroform extraction, glass bead disruption and column elution. The isolated plasmid DNA can be used for PCR amplification, bacterial transformation or for direct sequencing.

Product Number	Description	Pkg Size	Price
UB79220	Yeast Plasmid Isolation Kit Includes: Enzyme Solution Spheroplast Solution Lysis Solution Precipitation Solution	50 preps	\$139.30

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NUCLEIC ACID ISOLATION

MACHEREY-NAGEL NucleoSpin® RNA CLEAN-UP

Total RNA for Microarrays

NucleoSpin[®] RNA Clean-up kits are recommended for the clean-up of total RNA from RNA preparations which contain inacceptable amounts of RT-PCR inhibitors, making it suitable for microarrays. It is further recommended for the isolation of RNA from small amounts of cultured cells whenever copurification of some genomic DNA is acceptable. The kits allow purification of pure RNA with an A_{260/280} ratio generally exceeding 1.9 (measured in TE buffer (pH 7.5)).

NucleoSpin® RNA Clean-up kits are also recommended for the clean-up of RNA from enzymatic reactions like in vitro transcribed RNA, amplification reactions (e.g. Amino-Allyl-mRNA Amplification Kit), biotinylated RNA or fluorescent (Cy dye) labeled RNA.

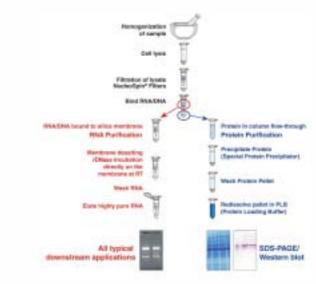
- · Silica-membrane technology: fast and easy to perform
- Binding capacity: up to 200 μg RNA
- RNA is suitable for all common downstream applications
- Elution volume: 40 120 μL (default volume: 60 μL)

MACHEREY-NAGEL NucleoSpin® RNA/Protein

Total RNA and protein from one lysate

The NucleoSpin® RNA/Protein Kit enables isolation of RNA and protein from diverse sample types. Protein and RNA are isolated without splitting the sample prior to extraction. Thus, protein and RNA are obtained from one and the same sample and not from two similar portions of one sample. This is especially valuable for unique, small and precious samples. Isolated RNA is suitable for all common downstream applications. RNA isolated with the NucleoSpin® RNA/Protein Kit is of identical quality as RNA isolated with the well proven NucleoSpin® RNA II Kit. Isolated protein is immediately suitable for SDS-PAGE and Western blot analysis.

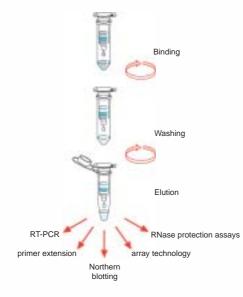
- RNA and Protein from one lysate
- Simple and fast procedure no phenol, no chloroform, no acetone
- High quality RNA RNA is suitable for all common downstream applications e.g. RT-PCR, blotting, or microarray
- Parallel DNA purification possible kits can be combined with the optional NucleoSpin[®] RNA/DNA buffer set



NucleoSpin® RNA/Protein Procedure

Product Number	Description	Pkg Size	Price
MCN74093310	NucleoSpin® RNA/Protein Kit, 10 Preps Includes: NucleoSpin® RNA/Protein Columns with Collecting Tubes NucleoSpin® Collecting Tubes 1.5 mL Microcentrifuge Tubes Protein Precipitator Reducing Agent Buffers RNase-free rDNase I RNase-free Water	Kit	\$77.30
MCN74093350	NucleoSpin® RNA/Protein Kit, 50 Preps Includes: NucleoSpin® RNA/Protein Columns with Collecting Tubes NucleoSpin® Collecting Tubes 1.5 mL Microcentrifuge Tubes Protein Precipitator Reducing Agent Buffers RNase-free rDNase I RNase-free Water	Kit	306.30

Please contact our Technical Support Department for the full range of NucleoSpin® RNA/Protein kits, package sizes, or to request a sample.





Product Number	Description	Pkg Size	Price
MCN74094810	NucleoSpin® RNA Clean-up Kit, 10 Preps Includes: NucleoSpin® RNA Columns 2 mL Collecting Tubes 1.5 mL Microcentrifuge Tubes Buffers RNase-free Water	Kit	\$48.10
MCN74094850	NucleoSpin® RNA Clean-up Kit, 50 Preps Includes: NucleoSpin® RNA Columns 2 mL Collecting Tubes 1.5 mL Microcentrifuge Tubes Buffers RNase-free Water	Kit	184.60

Please contact our Technical Support Department for the full range of NucleoSpin® RNA Cleanup kits, package sizes, or to request a sample.

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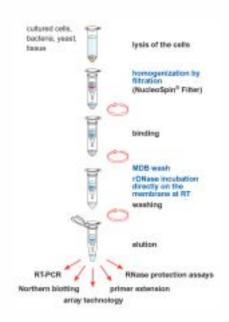


MACHEREY-NAGEL NucleoSpin[®] RNA II

Total RNA purification got easier

NucleoSpin[®] RNA II is recommended for isolation of total RNA from cultured cells, tissue, bacteria, yeast, cell-free biological fluids and reaction mixtures. This kit allows purification of up to 70 μ g of highly pure, DNA-free total RNA. Total RNA prepared with NucleoSpin[®] RNA II is suitable for applications like RT-PCR, Northern blotting, primer extension, array technology or RNase protection assays. Hands-on time for total RNA preparation from cultured cells or tissue is less than 30 minutes.

- · Silica-membrane technology: fast and easy to perform
- · RNA is suitable for all common downstream applications
- Yields up to 70 µg ready-to-use total RNA
- Binding capacity: up to 200 μg RNA
- Elution volume: 40 100 μL (default volume: 60 μL)
- rDNase included for removal of genomic DNA
- NucleoSpin® Filters for homogenization and reduction of lysate viscosity included
- MDB (Membrane Desalting Buffer) for an optimized rDNase digest



NucleoSpin® RNA II Procedure

Product Number	Description	Pkg Size	Price
MCN74095510	NucleoSpin® RNA II Kit, 10 Preps Includes: NucleoSpin® RNA Columns 2 mL Collecting Tubes 1.5 mL Microcentrifuge Tubes Filters Buffers RNase-Free rDNase DNase I Reaction Buffer RNase-Free Water	Kit	\$69.70
MCN74095550	NucleoSpin® RNA II Kit, 50 Preps	Kit	265.50
MCN740955250	NucleoSpin® RNA II Kit, 250 Preps	Kit	1,128.80

Please contact our Technical Support Department for the full range of NucleoSpin® RNA II kits, package sizes, or to request a sample.

MACHEREY-NAGEL NucleoSpin® RNA PLANT

RNA extractions designed for plants

NucleoSpin® RNA Plant is designed for isolation of DNA-free high-quality RNA from a wide variety of plant and fungal samples. The working procedure is similar to the NucleoSpin® RNA II method, removal of contaminating DNA is achieved by effective rDNase digest during the purification process.

- Silica-membrane technology
- RNA is suitable for all common downstream applications
- Yields up to 70 μg ready-to-use total RNA
- Elution volume: 60 μL
- rDNase included for removal of genomic DNA
- MDB (Membrane Desalting Buffer) for an optimized rDNase digest
- Two alternative lysis buffers included
- NucleoSpin[®] Filters for homogenization and reduction of lysate viscosity included

Product Number	Description	Pkg Size	Price
MCN74094910	NucleoSpin® RNA Plant Kit, 10 Preps Includes: NucleoSpin® RNA Columns 2 mL Collecting Tubes 1.5 mL Microcentrifuge Tubes Filters Buffers RNase-Free rDNase DNase I Reaction Buffer RNase-Free Water	Kit	\$57.00
MCN74094950	NucleoSpin® RNA Plant Kit, 50 Preps	Kit	217.40
MCN740949250	NucleoSpin® RNA Plant Kit, 250 Preps	Kit	955.00

Please contact our Technical Support Department for the full range of NucleoSpin® RNA Plant kits, package sizes, or to request a sample.

MACHEREY-NAGEL NucleoSpin® miRNA SMALL AND LARGE RNA ISOLATION

MicroRNA extraction without phenol/chloroform

- Parallel isolation of small and large RNA from human/animal tissue and cultured cells
- Parallel isolation of small and large RNA from plant tissue
- Parallel isolation of small and large RNA in combination with phenol/ chloroform (e.g., TRIzol[®]) lysis
- Purification of siRNA and large dsRNA from DICER reactions
- RNA suitable for real-time RT-PCR, Northern Blot, chip hybridization, etc.

Product Number	Description	Pkg Size	Price
MCN74097110	Nucleospin® miRNA, 10 preps Includes: NucleoSpin RNA Columns NucleoSpin miRNA Columns NucleoSpin Filters NucleoSpin Protein Removal Columns Collection Tubes Buffers RNase-Free rDNase	Kit	\$80.20
MCN74097150	Nucleospin [®] miRNA, 50 preps	Kit	291.60
MCN740971250	Nucleospin® miRNA, 250 preps	Kit	1,201.20

NUCLEIC ACID ISOLATION

MACHEREY-NAGEL NucleoSpin® RNA Virus

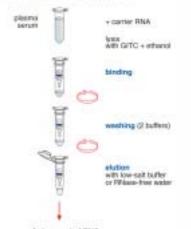
For rapid purification of viral RNA and DNA* from cell-free biological fluids

NucleoSpin® RNA Virus is designed for the isolation of viral nucleic acids from serum, plasma or any cell-free biological fluids. NucleoSpin® RNA Virus features a special type of membrane which has a high binding capacity for nucleic acids. NucleoSpin® RNA Virus is suited for the simultaneous purification of viral RNA and DNA when combined with a supporting protocol.

- Reliable and reproducible isolation of viral RNA and DNA* free of impurities
- Proven for a large variety of viruses including HCV, HIV, Bird Flu Virus, Blue Tongue Virus
- Carrier-RNA included for highest sensitivity in downstream applications
- * For parallel isolation of viral RNA and DNA use of Proteinase K required *(not included in the kit)*

Sample material	150 μ L serum, plasma, cell-free biological fluids
Fragment size	100 bp- >30 kbp
Typical recovery	>90%
Elution volume	50 μL
Preparation time	30 min/4-6 preps
Binding capacity	40 μg

NucleoSpin® RNA Virus procedure



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Product Number	Description	Pkg Size	Price
MCN74095610	NucleoSpin [®] RNA Virus, 10 Preps Includes: NucleoSpin [®] RNA Virus Columns, 10 Collection Tubes (2 mL), 10 Buffers, and Carrier RNA	Kit	\$46.90
MCN74095650	NucleoSpin [®] RNA Virus, 50 Preps Includes: NucleoSpin [®] RNA Virus Columns, 50 Collection Tubes (2 mL), 50 Buffers, and Carrier RNA	Kit	167.20
MCN740956250	NucleoSpin [®] RNA Virus, 250 Preps Includes: NucleoSpin [®] RNA Virus Columns, 250 Collection Tubes (2 mL), 250 Buffers, and Carrier RNA	Kit	689.60
MCN740506	Proteinase K	100 m	g 84.50

In addition to purifying high-quality genomic DNA from blood, the NucleoSpin® Blood kit has also been proven to work for the isolation of RNA from Plasma and Serum.

MACHEREY-NAGEL NucleoSpin® RNA XS

Purification of highly concentrated RNA from smallest samples

NucleoSpin® RNA XS allows the isolation of highly concentrated and highly pure RNA from small samples. It is based on the reliable silica membrane technology, featuring the innovative NucleoSpin® XS column design which allows elution in only 5 - 20 μ L resulting in high RNA concentrations.

- Isolation of RNA from low amounts of sample material like biopsies or single cells
- Elution in only 5 μL resulting in concentrated RNA for sensitive downstream applications
- rDNase included for optional on-column DNA removal
- NucleoSpin[®] Filters (Shredders) included for efficient homogenization and reduction of viscosity
- High quality RNA that is ready-to-use for RT-PCR and other applications

Product Number	Description	Pkg Size	Price
MCN74090210	NucleoSpin® RNA XS, 10 Preps Includes: NucleoSpin® RNA XS Columns, 10 Collection Tubes (2 mL), 10 NucleoSpin® Filters, RNase-free rDN Buffers, Carrier RNA, and Reducing		\$87.40 CEP
MCN74090250	NucleoSpin [®] RNA XS, 50 Preps Includes: NucleoSpin [®] RNA XS Columns, 50 Collection Tubes (2 mL), 50 NucleoSpin [®] Filters, RNase-free rDN Buffers, Carrier RNA, and Reducing		317.70 CEP
MCN74090225	0 NucleoSpin® RNA XS, 250 Preps Includes: NucleoSpin® RNA XS Columns, 250 Collection Tubes (2 mL), 250 NucleoSpin® Filters, RNase-free rDN Buffers,Carrier RNA, and Reducing /		1,318.80 EP

MACHEREY-NAGEL HIGH-THROUGHPUT APPLICATIONS

Vacuum and centrifuge processing - manual and automated

Macherey-Nagel offers a variety of kits for medium-throughput and highthroughput nucleic acid purification. Kits for all applications are available for both, manual and automated use on common laboratory robotic platforms.

NucleoSpin[®] kits based on silica-membrane technology are available in flexible 8-well strip format for varying throughput and in convenient 96-well format for high-throughput nucleic acid purification. NucleoSpin[®] 8/ 96 kits can be processed by centrifugation or under vacuum.

For centrifugation, a microplate centrifuge is required that can accommodate NucleoSpin[®] strips / plate stacked on a Round-well Block, Squarewell Block, or Rack with Tube Strips (bucket height: 85 mm) and reaches accelerations of 5 600 - 6 000 x g. For processing NucleoSpin[®] 8-well strips by centrifugation the Starter Set C is required. A NucleoVac 96 vacuum manifold is required for processing under vacuum. To process 8-well strips under vacuum, the Starter Set A is required.

For the manual processing of NucleoMag kits a suitable magnetic separator is required such as the NucleoMag SEP.

Please contact Mike in Technical Support for assistance.

Product Number	Description	Pkg Size	Price
MCN740681	NucleoVac 96 Vacuum Manifold	Each	\$494.60
MCN740682	Starter Set A Includes: Column Holders A, 2 NucleoSpin® Dummy Strips	Each	259.00
MCN740684	Starter Set C Includes: Column Holders C, 2 MN Square-well Blocks Rack with Tube Strips	Each	363.60
MCN744900	NucleoMag SEP	Each	574.40

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MACHEREY-NAGEL NucleoSpin® FFPE RNA

... the easy way to RNA from FFPE tissue

NucleoSpin[®] FFPE RNA is designed to ease and improve RNA isolation from FFPE samples. It introduces an innovative method for deparaffinization using the Paraffin Dissolver (included in the kit; patent pending) which allows isolation of concentrated RNA, ready-to-use in RT-PCR, within only 70 minutes!

Features

- Enhanced RT-PCR performance RNA is well decrosslinked and less fragmented
- Very easy paraffin removal Paraffin Dissolver (patent pending) included
- · Minimum number of working steps in a streamlined workflow
- Efficient on-column DNA removal, rDNase included
- Higher sensitivity with concentrated RNA elution volume as little as 5 μL

Applications

- Rapid isolation of RNA from formalin-fixed, paraffin-embedded samples e.g., colon carcinoma (unstained); colon carcinoma (hematoxylin stained); colon mucosa, adenocarcinoma of colon transversum, liver (rat / human), liver carcinoma (hematoxylin stained), lymph node, spleen (rat / human); pancreas (rat / human; diabetic / non-diabetic), placenta
- · Isolation of RNA from fresh and archived FFPE samples
- · Isolation of RNA from specimen on object slides (stained or unstained)
- RNA ready to use in RT-PCR

Product Number	Description	Pkg Size	Price
MCN74096910	NucleoSpin® FFPE RNA – 10 preps Includes: Columns, Paraffin Dissolver, Buffers, Proteinase K, rDNase (RNase-free), Collection Tubes (1.5 mL and 2 mL) User Manual	Kit	\$89.80
MCN74096950	NucleoSpin [®] FFPE RNA – 50 preps Includes: (Same as above)	Kit	339.70
MCN740969250	NucleoSpin [®] FFPE RNA – 250 preps Includes: (Same as above)	Kit 1	,428.40

MACHEREY-NAGEL NucleoSpin[®] TriPrep

Parallel isolation of RNA, DNA, and protein from unsplit samples

Features

- Convenient one-column preparation of RNA, DNA, and protein
- Complete kit, including: NucleoSpin Filters (shredders) for optimal lysis, rDNase for on-column DNA digestion, Protein Solving Buffer for solving all types of proteins
- High quality RNA and DNA, ready-to-use for downstream applications
- · High protein yield independent of protein size, localization, modification, etc.
- · Easy protein quantification using the Protein Quantification Assay

Applications

- Rapid purification of total RNA, DNA, and protein from small and precious samples no sample splitting for different isolations necessary
- · Gene expression profiling, analysis of transgenic organisms, drug screening, genotyping
- Reliable interpretation of RNA, DNA, and protein amounts
- Good preservation of protein primary structure and posttranslational modifications (e.g. protein phosphorylation) allows protein analysis without additional inhibitors (e.g. proteinase or phosphatase inhibitors)
- · Suitable for a broad spectrum of starting materials, including cultured cells, tissue, bacteria, yeast, and plants
- RNA and DNA are ready to use for all typical downstream applications
- Proteins are ready-to-use for SDS-PAGE/Western-Blotting

Product Number	Description	Pkg Size	Price
MCN74096610	NucleoSpin [®] TriPrep – 10 preps Includes: Columns with Collection Tubes, Collection Tubes (1.5 mL and 2 mL), NucleoSpin Filters, Buffers, RNase-free rDNase	Kit	\$50.00
MCN74096650	NucleoSpin [®] TriPrep – 50 preps Includes: (Same as above)	Kit	407.10
MCN740966250	NucleoSpin [®] TriPrep – 250 preps Includes: (Same as above)	Kit	1,740.50

MACHEREY-NAGEL NucleoSpin[®] RNA L

Total RNA from cells and tissue

NucleoSpin[®] RNA L allows isolation of DNA-free high-quality RNA from large amounts of starting material, e.g. cultured cells, tissue, bacteria, and yeast.

Features

- Complete midi kit with recombinant DNase and shredders for DNA-free* RNA of high quality
- rDNase included for on-column digestion → efficient removal of genomic DNA
- NucleoSpin[®] Filters L (shredders) included → efficient homogenization and reduction of viscosity
- Up to 600 µg ready-to-use RNA

Applications*

- Total RNA isolation from cultured cells, tissue (standard protocol)
- Support protocol for total RNA from ≤ 10¹⁰ bacterial cells (Gram-negative and Gram-positive)
- Support protocol for total RNA from ≤ 3 x 10⁸ yeast cells
- · Support protocol for RNA clean-up from reaction mixtures
- Support protocol for total RNA from samples stored in RNAlater[®]
 RNA suitable for e.g. real-time RT-PCR, Northern bloting, primer
- extension, array technology, RNase protection assays
- * The amount of DNA contamination is significantly reduced during on-column rDNase digestion. In very sensitive applications it might be possible to detect traces of DNA. The eventuality of DNA detection with PCR increases with:
- The number of DNA copies per preparation: single copy target < plastidial/ mitochondrial target < cells transfected with plasmid
- Decreasing PCR amplicon size

Product Number	Description	Pkg Size	Price
MCN74096220	NucleoSpin® RNA L – 20 preps Includes: NucleoSpin RNA L Columns with Collection Tubes (15 mL), Collection Tubes (15 mL), NucleoSpin® Filters L, Buffers, RN	Kit lase-free rD	\$222.70 Nase

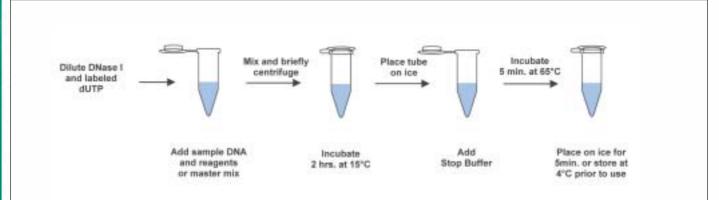
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DNA LABELING

ENZO® LIFE SCIENCES NICK TRANSLATION DNA LABELING SYSTEM

A simple and efficient method for generating labeled DNA

The complete system includes all of the necessary reagents required for 50 Nick translation reactions and is recommended for labeling of double stranded DNA larger than 1kb for fluorescent in situ hybridization (FISH) applications. The Nick Translation DNA Labeling System can accommodate a wide range of biotin-labeled and fluorophore-labeled nucleotides. In addition to choice of label, the kit design allows the user to optimize incorporation and product size by adjusting the ratio of labeled-dUTP to dTTP and DNase I concentration respectively.



System Overview

The Enzo[®] Life Sciences' Nick Translation DNA Labeling System contains individualized components, including DNase I, DNA Polymerase I and labeled dUTP. This allows optimization beyond the recommended reaction protocol included with the kit. DNase I introduces randomly distributed nicks to double stranded DNA at low enzyme concentrations. The 5' 3' exonuclease activity of Polymerase I removes nucleotides from the 3' side of the nick white synthesizing a partial new complementary strand using the 3'-OH termini as primer. In the presence of dye- or biotin-labeled dUTP. Polymerase I incorporates labeled dUTP instead of dTTP. The well-balanced nuclease/polymerase activities of the enzyme mix ensure the generation of highly labeled double stranded DNA fragments.

Product Number	Description	Pkg Size	Price
ENZ42910	Nick Translation DNA Labeling System Kit Includes: DNase I, 100 µL 10 x DNase I Dilution Buffer, 1mL DNA Polymerase I, 250 µL Reaction Buffer, 250 µL dNTP Mix, 250 µL Stop Buffer, 250 mL Nuclease-free Water, 10 mL	Kit	\$369.30

ENZO® LIFE SCIENCES FLUORESCENT LABELED dUTPs

Peak performance for labeling of DNA

- · Eight distinct colors to choose from, spanning the visible light spectrum
- Exceptionally high quantum yields and molar extinction coefficients
- Excellent water solubility, high signal intensity, good photostability
- Suitable for a wide range of molecular biology and cytogenetics applications

The fluorescent labeled dUTPs are modified at the C-5 position of uridine via an aminoallyl linker, which provides a spacer between the dye and nucleotide that minimizes interactions between them, thus promoting good incorporation into DNA by polymerases. The excellent stability and quantum yields of the fluorescent labeled dUTPs, combined with their high incorporation rates, make them the ideal choice for a broad range of nucleic acid labeling applications. Probes generated with the fluorescent dUTPs are especially suitable for multi-color detection techniques, such as in situ hybridization and microarray analysis.

Product Number	Description	Abs. Max	Em. Max	Ext. Coeff. (M ⁻¹ cm ⁻¹)	Pkg Size	Price
ENZ42853	Aqua 431 dUTP DEAC	431 nm	480 nm	50,000	25 nmol	\$369.30
ENZ42831	Green 496 dUTP Fluorescein	496 nm	520 nm	85,000	25 nmol	369.30
ENZ42845	Green 500 dUTP Rhodamine Green	500 nm	522 nm	78,000	25 nmol	369.30
ENZ42843	Gold 525 dUTP Carboxyrhodamine 6G	525 nm	551 nm	92,000	25 nmol	369.30
ENZ42521	Gold 550 dUTP Enhanced Cyanine 3	550 nm	564 nm	150,000	25 nmol	369.30
ENZ42842	Orange 552 dUTP TAMRA	552 nm	576 nm	60,000	25 nmol	369.30
ENZ42844	Red 580 dUTP ROX	580 nm	603 nm	75,000	25 nmol	369.30
ENZ42522	Red 650 dUTP Enhanced Cyanine 5	650 nm	662 nm	250,000	25 nmol	369.30

ENZO® LIFE SCIENCES CGH LABELING FOR OLIGONUCLEOTIDE ARRAYS

Enhanced Cyanine Dye Performance

Labeling reagents specifically optimized for oligonucleotide CGH arrays.

- · Convenient all-in-one system containing labeled nucleotides
- Accommodates a wide range of input DNA (0.25 μg 2.5 μg) without amplification
- Reduced variability with excellent DLR values (0.09-0.12)

Oligonucleotide arrays for CGH (Comparative Genomic Hybridization) enhance the understanding of genetic disorders, cancers and other genomic aberrations by increasing the resolution of detection for copy number variation. Considering that most labeling technologies for array CGH were originally optimized for use on BAC arrays, results on oligonucleotide arrays may vary. By specifically optimizing the labeling reagents, the CGH Labeling Kit for Oligonucleotide Arrays produces high quality data with as little as 0.25 µg of genomic DNA without the need for amplification. The CGH Labeling Kit for Oligonucleotide Arrays is based upon a proprietary direct labeling technology that utilize two distinct labeled nucleotide formulations. Both EnzoGold550[™] and EnzoRed650[™] represent enhanced cyanine 3 and 5 dyes with spectral properties that minimize variability and improve signal to noise ratios overall.

Product Number	Description	Pkg Size	Price
ENZ42671	CGH Labeling Kit for Oligo Arrays	20 reactions	\$911.00

ENZO® LIFE SCIENCES CGH LABELING KIT FOR BAC ARRAYS

Preparation of Cyanine 3- and Cyanine 5-labeled DNA for hybridization to BAC arrays

The CGH Labeling Kit for BAC Arrays has been optimized to label DNA for dual sample comparative genomic hybridization (CGH) assays on BAC arrays. All required reagents are provided including fully optimized nucleotide mixes that contain either cyanine 3-dUTP or cyanine 5-dUTP.

The CGH Labeling Kit for BAC Arrays has been specifically tailored to meet the varying requirements of individual laboratories by providing sufficient amount of reagents for two different protocols.

For the average user, the Standard Protocol calls for a 4-hour labeling in a 50 μ L reaction volume. For users with dilute DNA (\leq 20 ng/ μ L), the Dilute DNA Protocol calls for a 4-16 hour labeling in a total volume of 100 μ L.

Product Number	Description	Pkg Size	Price
ENZ42670	CGH Labeling Kit for BAC Arrays Kit Includes: Primers/Reaction Buffer, 2 x 400 μL Cyanine 3-dUTP Nucleotide Mix, 2 x 50 μL Cyanine 5-dUTP Nucleotide Mix, 2 x 50 μL Klenow Exo-DNA Polymerase, 1 x 20 μL Stop Buffer, 1 x 100 μL Nuclease-free Water, 1 x 1 mL	2 x 10 reactions	\$911.00

ENZO[®] LIFE SCIENCES BioArray[™] cDNA SYNTHESIS KIT

BioArray[™] cDNA Synthesis Kit, is based on the scheme of Van Gelder et al. (1990). An oligo dT primer with a bacteriophage T7 promoter sequence at its 5'-end is hybridized to poly A sequences in mRNA. First strand cDNA synthesis proceeds from the action of reverse transcriptase. Second strand synthesis is accomplished by the combined activity of RNase H, to create nicks in the RNA/DNA hybrid, and DNA polymerase that uses these nicks as priming sites for second strand cDNA synthesis.

Product Number	Description	Pkg Size	Price
ENZ4240610	BioArray [™] cDNA Synthesis Module Contains enough reagents for cDNA synthesis from 10 cellular RNA samples	10 reactions	\$369.30

ENZO® LIFE SCIENCES cDNA PURIFICATION KIT

A fast, efficient and convenient method for purification of double stranded cDNA

This column-based procedure removes salts, proteins, nucleotides and small oligos from the upstream enzymatic reactions. The improved formulation of the binding buffer and wash solution allows higher yield of purified cDNA product compared to an earlier version of the kit. The cDNA is purified in three steps that consist of (1) mixing with binding buffer and adding to the column, (2) washing with wash buffer, and (3) elution in a minimum of 6 μ L of water. This procedure can be used for purifying a maximum of 5 μ g cDNA material ranging in size from 75 bp to 23 kb.

Product Number	Description	Pkg Size	Price
ENZ42407	cDNA Purification Kit	10 reactions	\$106.70

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tech@biolynx.ca • sales@biolynx.ca

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NUGEN RNA AMPLIFICATION AND LABELING

Simple, sensitive, flexible, application-based workflows enable your discoveries and release the potential in your most valuable biological samples.

The Ovation[®] Systems family of products are designed for specific applications and work together as modules (Amplification and Target Preparation) to create complete workflows for gene expression analysis. This modular approach makes it easy to choose the right Ovation[®] products for your application or preferred analytical platform, whether it's Affymetrix, Agilent, or Illumina microarray technology, or qPCR.



NuGEN Product Selection Chart:

NuGEN Amplification Module	Application	Analysis Platform	NuGEN Target Preparation Module
Ovation [®] RNA Amplification System V2*	 For small samples 5 – 100 ng of total RNA 3' focused amplification 	Affymetrix GeneChip 3' Arrays Agilent Arrays Illumina Arrays Quantitative PCR	Encore [™] Biotin Module Agilent Solution Encore BiotiinIL Module None
Ovation [®] Whole Blood Solution Requires Ovation [®] RNA Amplification System V2 & Ovation [®] WB Reagent	 For whole blood samples 20-50 ng of whole blood total RNA 3' focused amplification 	Affymetrix GeneChip 3' Arrays	Encore [™] Biotin Module
WT-Ovation [™] RNA Amplification System	 For small and degraded samples 5 – 50 ng of total RNA No 3' bias – Whole transcriptome amplification 	Quantitative PCR	None
Ovation [®] Pico WTA System Ovation [®] PicoSL WTA System	 For small and degraded samples 500 pg to 50 ng of total RNA No 3' bias – Whole transcriptome amplification 	Affymetrix GeneChip 3' Arrays Affymetrix Gene & Exon ST Arrays Agilent Arrays Illumina Arrays Quantitative PCR	Encore [™] Biotin Module WT-Ovation [™] Exon Module & Encore [™] Biotin Module Agilent Solution Encore [™] BiotinIL Module None
WT-Ovation [™] FFPE System V2	 For FFPE samples or 50 ng of FFPE total RNA No 3' bias – Whole transcriptome amplification 	Affymetrix GeneChip 3' Arrays Affymetrix Gene & Exon ST Arrays Agilent Arrays Illumina Arrays Quantitative PCR	Encore [™] Biotin Module WT-Ovation [™] Exon Module & Encore [™] Biotin Module Agilent Solution Encore [™] BiotinIL Module None
Applause [™] WT-Amp ST System Applause [™] WT-Amp Plus ST System	 For standard samples Total RNA samples sizes starting at 50 ng No 3' bias – Whole transcriptome amplification 	Affymetrix Gene & Exon ST Arrays	WT-Ovation [™] Exon Module & Encore [™] Biotin Module
Applause [™] 3'-Amp System	 For standard samples Total RNA sample sizes starting at 50 ng 3' focused amplification 	Affymetrix GeneChip 3' Arrays	Encore [™] Biotin Module
WT-Ovation [™] One-Direct	 Prepares targets from lysate of one or more cells As little as 10 pg of purified total RNA 	Affymetrix GeneChip 3' Arrays Affymetrix Gene & Exon ST Arrays Agilent Arrays Illumina Arrays Quantitative PCR	Encore [™] Biotin Module Agilent Solution Encore [™] BiotinIL Module

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NuGEN Ovation[®] WHOLE BLOOD SOLUTION

Amplify nanograms of whole blood RNA without the need for Globin reduction procedures

The Ovation[®] Whole Blood Solution is comprised of optimized products and user guides enabling gene expression analysis of whole blood RNA without the need for Globin reduction procedures. The Ovation[®] Whole Blood Solution is composed of the Ovation[®] RNA Amplification System V2 (NU310012 & NU310060) and the Ovation[®] WB Reagent.

These components provide a fast, simple, automation-friendly process that starts with 20-50 ng of whole blood total RNA and yields up to 12 micrograms of ss-cDNA ready for qPCR analysis or cDNA storage. The cDNA can be used in fragmentation and labeling for target preparation and analysis with Affymetrix GeneChip® or Agilent arrays.

Product Number	Description	Pkg Size	Price
NU130012	Ovation [®] WB Reagent	12 rxns	\$242.10
NU130060	Ovation [®] WB Reagent	60 rxns	790.20

NuGEN WT-Ovation[™] FFPE SYSTEM V2

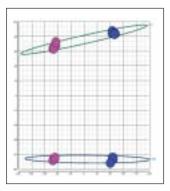
Target preparation from as little as 50 ng of FFPE total RNA

The NuGEN WT-Ovation[™] FFPE System V2 is a whole transcriptome amplification system enabling researchers to conduct global gene expression analysis on the vast archives of small and degraded RNA derived from FFPE samples. The system is comprised of reagents and a protocol required for amplification of as little as 50 ng of total FFPE RNA. The protocol takes just six hours, and can be used for qPCR, sample archiving, fragmentation, and labeling.

The amplified cDNA can be fragmented and labeled in less than two hours for GeneChip[®] 3' expression array analysis using NuGEN's Encore[™] Biotin Module.

For analysis using Affymetrix GeneChip[®] Exon and Gene ST arrays, the amplified cDNA can be used with the WT-Ovation[™] Exon Module, then fragmented and labeled using the Encore[™] Biotin Module.

For analysis on Agilent arrays, the amplified cDNA can be fragmented and labeled using NuGEN's Agilent Solution.



Principle Components Analysis (PCA) of colon tumor and normal adjacent tissue (NAT)

Targets were prepared from RNA extracted from formalin fixed paraffin embedded tissue (FFPE) from one donor (pink) and fresh frozen tissue from a second donor (blue). Each sample was amplified in quadruplicate and hybridized to Affymetrix HGU133A_2.0 GeneChip® arrays. PCA was performed using Partek Genomics Suite software. The green and blue ellipses (NAT and Tumor, respectively) define the boundary of two standard deviations from the centroid of each cluster indicating a statistically significant separation of samples based on the disease state of the tissue. This demonstrates that the amplification system maintains the integrity of the biological data

Product Number	Description	Pkg Size	Price
NU340012	WT-Ovation [™] FFPE System V2	12 rxns	\$1,746.90
NU340060	WT-Ovation [™] FFPE System V2	60 rxns	8,235.90

WT-Ovation[™] FFPE RNA Amplification System V2 includes all necessary buffers, primers and enzymes for first strand, second strand synthesis and amplification, yielding single stranded amplified cDNA. This kit also provides nuclease-free water and Agencourt[®] RNAClean[®] magnetic beads for double stranded cDNA purification.

NuGEN WT-Ovation[™] RNA AMPLIFICATION SYSTEM

Amplify all mRNA species in a total RNA population across the entire transcriptome prior to Q-PCR

The WT-Ovation[™] RNA Amplification System powered by Ribo-SPIA[®] technology, enables whole transcriptome gene expression analysis. WT-Ovation[™] provides a rapid, simple and sensitive method for preparing microgram quantities of amplified cDNA from 5 to 50 ng of total RNA with no 3' bias, in less than 4 hours. Amplification is initiated at the 3' end and randomly throughout the whole transcriptome.

The amplified cDNA can be fragmented and labeled in under two hours for Affymetrix GeneChip[®] 3' expression array analysis using NuGEN's Encore[™] Biotin Module.

For analysis on Agilent arrays, the amplified cDNA can be fragmented and labeled in the same day using NuGEN's Agilent Solution.

Product Number	Description	Pkg Size	Price
NU221024	WT-Ovation [™] RNA Amplification System	24 rxns	\$1,935.00

The WT-Ovation™ RNA Amplification System includes buffers, primers, enzymes and nuclease-free water.

NuGEN Ovation® PICO WTA SYSTEM

Linear whole transcriptome amplification starting with 500 picograms of total RNA

The Ovation[®] Pico WTA System provides a sensitive, rapid, and simple method for preparing in less than five hours six to 10 micrograms of amplified cDNA from a range of 500 picograms to 50 nanograms total RNA. Amplification is initiated both at the 3' end and randomly throughout the whole transcriptome to enable amplification of non-poly(A) transcripts and compromised RNA samples and to provide flexibility in qPCR assay design.

With the same input of total RNA and a similar procedure, the Ovation[®] Pico and PicoSL WTA Systems are tailored to produce distinct levels of output meeting varying downstream analysis requirements. The Ovation[®] Pico WTA system generates 6-10 µg of amplified cDNA whereas the Ovation[®] PicoSL WTA System is optimized for lower output at 2-4 µg.

The amplified cDNA can be fragmented and labeled in less than two hours for GeneChip[®] 3' expression array analysis using NuGEN's Encore[™] Biotin Module.

For analysis using Affymetrix GeneChip[®] Exon and Gene ST arrays, the amplified cDNA can be used with the WT-Ovation[™] Exon Module, then fragmented and labeled using the Encore[™] Biotin Module.

For analysis on Agilent arrays, the amplified cDNA can be fragmented and labeled using NuGEN's Agilent Solution.

Product Number	Description	Pkg Size	Price
NU330012	Ovation [®] Pico WTA System	12 rxns	\$1,411.20
NU330060	Ovation [®] Pico WTA System	60 rxns	6,588.90
NU331048	Ovation [®] PicoSL WTA System	48 rxns	2,108.70

The Ovation® Pico WTA System includes all necessary buffers, primers and enzymes for first strand synthesis, second strand synthesis and amplification, yielding single stranded amplified cDNA. The kit also provides nuclease-free water and Agencourt® RNAClean® magnetic beads for double stranded cDNA purification.

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RNA AMPLIFICATION AND LABELING

NuGEN WT-Ovation[™] SYSTEMS APPLICATIONS

The family of Whole Transcriptome WT-Ovation[™] RNA Amplification systems is ideal for small, degraded, LCM, whole blood, old and archived tissue, non-poly (A) RNA, and any clinical material that has been collected under suboptimal field conditions. Since the RNA is amplified with no 3' bias, the power and utility of Whole Transcriptome amplification is also clear to scientists exploring alternative splice variants, exon array analysis, and prokaryotic gene expression.

> NuGEN Ovation[®] and WT-Ovation[™] Kits are compatible with the Macherey-Nagel NucleoSpin[®] Extract Kit for amplified cDNA purification.

Please contact our Technical Support Department for more information.

NuGEN Ovation[®] RNA AMPLIFICATION SYSTEM V2

Prepare amplified cDNA from nanograms of total RNA

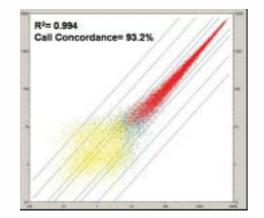
The Ovation[®] RNA Amplification System V2 provides a rapid, simple, and automation-friendly approach for 3'-focused amplification of total RNA in less than four hours, and yields between four and seven μg of amplified antisense ss-cDNA for qPCR or microarray analysis.

The amplified cDNA can be fragmented and labeled in less than two hours for Affymetrix GeneChip[®] 3' expression array analysis using NuGEN's Encore[™] Biotin Module.

For analysis on Agilent arrays, the amplified cDNA can be fragmented and labeled in the same day using NuGEN's Agilent Solution.

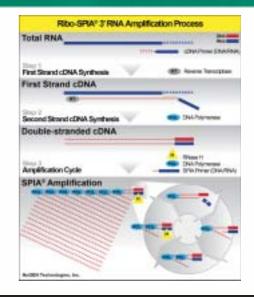
Product Number	Description	Pkg Size	Price
NU310012	Ovation [®] RNA Amplification System V2	12 rxns	\$1,277.10
NU310060	Ovation [®] RNA Amplification System V2	60 rxns	5,930.10

The Ovation[®] RNA Amplification System V2 includes all of the buffers, primers, enzymes and nuclease free water.



High level of reproducibility with as little as 5 ng of total RNA

Two independent amplifications of 5 ng HeLa RNA using the Ovation[®] RNA Amplification System V2, processed with the FL-Ovation[®] cDNA Biotin Module V2, and analyzed on Affymetrix HG-U133A 2.0 GeneChip[®] array, show a high R2 signal correlation of 0.994 with a call concordance of 93.2%.



NuGEN AUTOMATION SOLUTIONS

Automated target preparation from total RNA for GeneChip® array analysis

The NuGEN Automation Solutions significantly accelerate and facilitate high throughput RNA amplification, fragmentation, and labeling for microarray analysis and qPCR using the Ovation[®] family of modular products.

Ideal for target preparation from a wide range of sample types such as whole blood, LCM, sorted cells, fine needle biopsies, and other limited and compromised samples.

The NuGEN Automation Solutions include validated scripts for various combinations of NuGEN assays and automation platforms. Currently the Ovation[®] Whole Blood RNA amplification, Fragmentation and Biotin Labeling protocols have been successfully automated on the following platforms:

- Beckman Biomek[®] ArrayPLEX
- Beckman Biomek[®] FX
- Affymetrix GeneChip[®] Array Station (GCAS)

Reagent Component: Products with reagent fill sizes sufficient for processing 96 or two sets of 48 samples. The automation reagent part numbers are designated with the letter 'A'.

Tools Component: Scripts or methods for the specific automation workstation, as well as instructions and documentation to help install and utilize these scripts.

Service Component: Automation consulting services in half or full day increments.

Product Number	Description	Pkg Size	Price
NU3100A01	Ovation [®] RNA Amplification System V2 - Automation	96 samples	\$9,224.10
NU1300A01	Ovation [®] WB Reagent – Automation	96 samples	1,053.90
NU4200A01	Encore [™] Biotin Module - Automation	96 samples	6,588.90

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NuGEN ENCORE[™] BIOTIN MODULE

Fragmentation and biotin labeling of cDNA

The EncoreTM Biotin Module is designed for fragmentation and labeling of cDNA for analysis on Affymetrix GeneChip® arrays. This product provides a rapid, simple and easily automatable approach to fragmentation and labeling of up to 5 μ g of cDNA in less than 2 hours, without the need for any purification steps.

The input cDNA can be generated from a wide range of sample quality or quantity using the following NuGEN RNA amplification systems: WT-Ovation[™] FFPE System, the Ovation[®] Pico WT System, or the Ovation[®] RNA Amplification System V2.

Product Number	Description	Pkg Size	Price
NU420012	Encore [™] Biotin Module	12 rxns	\$940.50
NU420060	Encore [™] Biotin Module	60 rxns	4,282.20

The Encore[™] Biotin Module kit Includes all the necessary buffers, enzymes and reagents.

NuGEN's Automation Solutions enable analysis of small and difficult samples to meet today's challenges in high throughput expression profiling and biomarker discovery.

NuGEN AGILENT SOLUTION

Fluorescent Labeling of cDNA for Agilent gene expression microarray analysis

The NuGEN Agilent solution enables the use of WT-Ovation[™]-generated cDNA for one-colour or two-colour analysis on the Agilent's Dual-Mode Gene Expression Arrays. The NuGEN WT-Ovation[™] technology for RNA amplification is ideal for use with small and compromised RNA samples typically obtained from clinical specimens such as LCM, sorted cells, fine needle biopsies, and FFPE samples.

The workflow consists of the following steps:

Define Sample Type: Based on sample characteristics, choose one of NuGEN's validated whole-transcript amplification product such as WT-Ovation[™] FFPE System or the Ovation[®] Pico WTA System.

Amplify RNA: Amplify RNA according to NuGEN protocols to generate amplified cDNA.

Label cDNA: Using the protocol outlined in the NuGEN Agilent Solution Application Note, label the amplified cDNA and proceed with hybridization to the Agilent Dual-Mode gene expression arrays.

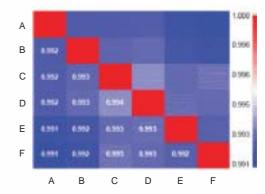
The NuGEN Agilent Solution reproducibility amplifies and labels very small (down to 500 picograms) or degraded samples.

NuGEN WT-Ovation[™] EXON MODULE

Prepare targets for analysis on Affymetrix GeneChip[®] Exon and Gene ST Arrays

The WT-Ovation[™] Exon Module enables global gene expression analysis of small and degraded RNA samples such as FFPE, LCM, fine needle aspirates, sorted cells and blood on Affymetrix GeneChip[®] Exon and Gene ST arrays.

Using cDNA generated by NuGEN's WT-Ovation[™] FFPE System, or Ovation[®] Pico WTA System, in about two hours the Exon Module creates sense-strand cDNA targets ready for fragmentation and labeling with NuGEN's Encore[™] Biotin Module.



Array Reproducibility

GeneChip® Gene 1.0 ST arrays were hybridized with fragmented and biotin-labeled ST-cDNA generated by six users in six different laboratories. A very high degree of array signal Pearson correlation (r > 0.991) was observed for all pairwise comparisons demonstrating a high degree of reproducibility and robustness of the NuGEN Exon solution. Gene ST array signal values were normalized using RMA and Pearson correlation was plotted using the Expression Console analysis package.

Product Number	Description	Pkg Size	Price
NU200012	WT-Ovation [™] Exon Module	12 rxns	\$806.40
NU200060	WT-Ovation [™] Exon Module	60 rxns	2,304.90

The WT-Ovation[™] Exon Module kit includes all the necessary, buffers, enzymes and reagents.

NuGEN ENCORE[™] BIOTIN IL MODULE

The NuGEN Encore[™] BiotinIL Module enables the use of Ovation-generated cDNA for analysis on the Illumina's Genome-Wide Expression BeadChips. The NuGEN Ovation[®] and WT-Ovation[™] technologies for RNA amplification are ideal for use with small and compromised RNA samples typically obtained from clinical specimens such as whole blood, LCM, sorted cells, fine needle biopsies, and FFPE samples.

The workflow consists of the following steps:

Define Sample Type: Based on sample characteristics, choose one of NuGEN's validated amplification products such as WT-Ovation[™] FFPE System, Ovation[®] Pico WTA System, or the Ovation[®] RNA Amplification System V2.

Amplify RNA: Obtain the appropriate amplification system and amplify RNA according to NuGEN protocols to yield amplified cDNA.

Label cDNA: The amplified material can then be directly used as input to the Encore[™] BiotinIL Module and the labeled target can be hybridized to the Illumina Expression BeadChips.

Product Number	Description	Pkg Size	Price
NU421048	Encore [™] BiotinIL Module	48 rxns	\$806.40

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RNA AMPLIFICATION AND LABELING

NuGEN APPLAUSE[™] WT-AMP ST SYSTEM

The Applause[™] WT-Amp ST and WT-Amp Plus ST Systems feature a simple, fast, single-tube, add-and-incubate workflow. Requiring no ribosomal RNA reduction and only a single purification step, targets are ready for hybridization in approximately 9 hours from RNA to array.

The Applause[™] Systems offer NuGEN's proven SPIA technology for total RNA sample sizes starting at 50 ng. Powerful and cost effective, Applause[™] delivers a single-tube, single purification, add-and-incubate assay as a more practical solution to meet everyday microarray and qPCR amplification needs.

The WT-Amp ST and WT-Amp Plus ST Systems are designed for preparing targets for interrogation on the Affymetrix GeneChip[®] Gene ST and Exon ST arrays, respectively. This low cost assay requires no ribosomal RNA reduction step and can be completed in a single day. Used together with the Encore[™] Biotin Module, the Applause[™] system provides the perfect workflow to produce targets appropriate for Gene ST and Exon ST array analysis.

Product Number	Description	Pkg Size	Price
NU550024 NU551024	Applause™ WT-Amp ST System Applause™ WT-Amp Plus ST System	24 rxns 24 rxns	\$1,262.70 1,476.90
	The Applause [™] WT-Amp ST System includes all the necessary buffers, enzymes and reagents.		

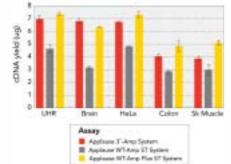
NuGEN APPLAUSE[™] 3'-AMP SYSTEM

The Applause[™] 3'-Amp System (Part No.: NU510024) features a simple, fast and sensitive method for preparing microgram quantities of amplified, antisense, single-stranded cDNA product. Requiring only a single purification step, targets are ready for hybridization in a single day.

The Applause[™] Systems offer NuGEN's proven Ribo-SPIA[®] (Single Primer Isothermal Amplification) technology for a large range of RNA sample sizes ranging from 50 to 200 ng.

The Applause[™] 3'-Amp System offers a comprehensive solution to prepare targets for use with Affymetrix GeneChip[®] arrays. These low-cost, singletube, add-and-incubate assays can be completed in a single day. Fragmentation and labeling of the cDNA target to prepare for array hybridization is performed using the Encore[™] Biotin Module with each of the Applause[™] System products.

Amplified cDNA Yields with the Applause System products





MJS BioLynx Inc.

Product Number	Description	Pkg Size	Price
NU510024	Applause™ 3'-Amp System	24 rxns	\$1,047.60
	The Applause [™] 3'-Amp System includes all the necessary buffers, enzymes and reagents.		

NuGEN PRELUDE[™] DIRECT LYSIS MODULE

The Prelude[™] Direct Lysis Module provides a fast and easy method for whole transcriptome analysis using direct cell lysates without RNA isolation. Cell washing and lysis take less than five minutes, and the resulting lysates can be added directly to the first strand synthesis reaction of the Ovation[®] Pico WTA, PicoSL WTA, or RNA-Seq Systems. Amplified yields are equivalent to those obtained with purified RNA samples. High-quality results are obtained as measured by arrays, qPCR, and RNA-Seq, with high concordance between cell lysates and the corresponding purified RNA.

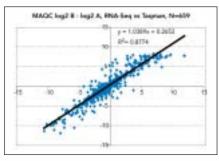
Product Number	Description	Pkg Size	Price
NU140024	Prelude [™] Direct Lysis Module	24 rxns	\$403.20



Nugen ovation® RNA-SEQ SYSTEM

The Ovation® RNA-Seq System provides a fast and simple method for preparing amplified cDNA from total RNA for RNA-Seq applications (transcriptome sequencing). Amplification is initiated at the 3' end as well as randomly throughout the whole transcriptome in the sample. This feature makes the Ovation® RNA-Seq System ideal for amplification prior to Next Generation Sequencing, as it allows amplification of both mRNA and non-polyadenylated transcripts. The double-stranded cDNA product of the Ovation® RNA-Seq System is optimized for the generation of sequencing libraries for Next Generation Sequencing platforms.

The Ovation® RNA-Seq System is powered by Ribo-SPIA® technology, a rapid, simple and sensitive RNA amplification process developed by NuGEN. Using Ribo-SPIA® technology and starting with as little as 500 pg total RNA, microgram quantities of cDNA can be prepared in approximately 6 hours.



Comparison of Ovation[®] RNA-Seq and qPCR: Differential expression data was generated for the MAQC A (Human Universal Reference) and MAQC B (Human Brain Reference) by both RNA-Seq and qPCR. RNA-Seq data from 10 ng of total RNA is plotted on X-axis, qPCR data plotted Y-axis. 659 TaqMan[®] probes that uniquely map to the refSeq annotations used in the RPKM calculations are represented. The qPCR results were originally reported in Shi, L. et al. Nature Biotechnology (2006) 24(9): 1151-1161.

Product Number	Description	Pkg Size	Price
NU710008	Ovation® RNA-Seq System	8 rxns	\$2,196.00
	The Ovation [®] RNA-Seq System includes all the necessary buffers, enzymes and reagents.		

Nugen ovation[®] 3'-dge system

The Ovation[®] 3'-DGE System provides accurate expression analysis (tag profiling) suitable for quantification of any poly(A)+ transcripts, without the need for prior sequence knowledge. It employs a simple, fast, and automatable workflow, powered by the Ribo-SPIA[®] Single Primer Isothermal Amplification technology and is compatible with all leading NGS (Next Generation Sequencing) platforms.

The input for the Ovation® 3'-DGE System is flexible. You can choose one of the two options that best fits with your experimental design:

- 10 ng 100 ng of purified total RNA
- Direct cell lysate of 50 10,000 cells using the Prelude[™] Direct Lysis Module

The protocol for the Ovation[®] 3'-DGE System takes only six hours to complete and generates micrograms of double-stranded cDNA, focusing on the most 3' 150 – 500 bases proximal to the poly(A) tail of the transcripts, ready for NGS library construction.

For users choosing the Illumina NGS platforms, the integrated solution with the Encore[™] NGS Library System I or the Encore NGS Multiplex System I, DGE libraries can be produced in nine hours, greatly simplifying the entire sample preparation procedure. The combination of the Ovation[®] 3'-DGE System and the Encore[™] NGS Library System I provides a complete, streamlined and easily automatable sample preparation workflow, enabling NGS-based expression profiling approaching the protocol simplicity and sample throughput of microarrays.

Product Number	Description	Pkg Size	Price
NU720008	Ovation® 3'-DGE System	8 rxns	\$1,567.80
	Ovation® 3'-DGE System includes all the necessary buffers, primers, and enzymes for first strand, second strand synthesis and amplification, yielding double stranded amplified cDNA. The kit also provides nuclease-free water and Agencourt RNAClean magnetic beads for second strand cDNA purification.		

NuGEN OVATION® WGA SYSTEM

Ovation[®] WGA System offers a robust and simple linear amplification technology based on SPIA[®] (Single Primer Isothermal Amplification). This amplification system faithfully replicates genomic DNA from clinical samples, providing a valuable resource for a variety of downstream applications including copy number change analysis using real-time quantitative PCR (qPCR) or microarrays. Because of the simplicity and robustness of the procedure, accurate and quantitative results are obtained with minimal sample or allele dropouts and without the need for customization or optimization.

Starting with 10 ng of genomic DNA, microgram quantities of amplified SPIA® Product can be prepared in approximately four hours. A variety of samples can be used successfully with the Ovation® WGA System, such as genomic DNA purified from cell lines, blood or tissue. The size of the resulting SPIA® products ranges from 50 to 1,500 bases, suitable for a wide range of downstream analysis.

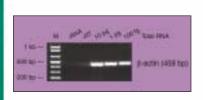
Product Number	Description	Pkg Size	Price
NU610012	Ovation® WGA System	12 rxns	\$335.70

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RT-PCR ANALYSIS

USB FideliTaq[™] RT-PCR MASTER MIX

USB FideliTaq[™] RT-PCR Master Mix (2X) further simplifies reverse transcription-polymerase chain reaction (RT-PCR) technique by providing all the necessary reagents for high-fidelity, one-step RT-PCR in a pre-mixed format. One-step RT-PCR is a variation of RT-PCR in which the components necessary for both the RT and PCR steps are combined in a single tube and the reactions are performed sequentially. During, reverse transcriptase with the FideliTaq[™] Master Mix, an RNA template is converted to cDNA which is subsequently amplified by a thermostable DNA polymerase. This single-step, closed-tube approach simplifies the expression analyses of one or a few genes from multiple RNA samples and reduces the risk of contaminating samples.



Sensitivity of the FideliTaq[™] RT-PCR Master Mix. A 459 bp fragment of the human ß-actin gene was RT-PCR amplified from the indicated amounts of human placental total RNA. RT temperature was 50°C and primers were at 0.8 µM. The -RNA control included no RNA in the sample and the -RT control included 100 ng of total RNA but used the Taq PCR Master Mix (PN 71162, without reverse transcriptase) to test for any contaminating genomic DNA in the RNA sample. "M" is the DNA marker Iane. Since the typical human cell contains about 10 picograms of total RNA, this target's detection at 100 femtograms represents about 1/100th of the total RNA of a typical human cell.

Product Number	Description	Pkg Size	Price
UB71185S1	FideliTaq [™] RT-PCR Master Mix (2X) Includes: FideliTaq [™] RT-PCR Master Mix (2X), 4 RNase-Free Water, 3 x 1 mL 25mM MgCl ₂ Solution, 1 x 1 mL		\$489.20

USB RT-PCR MASTER MIX

RT-PCR Master Mix (2X) provides maximum convenience and optimal performance for highly sensitive and specific one-step RT-PCR reactions. This unique formulation combines all the reagents necessary for successful RT-PCR: M-MLV Reverse Transcriptase, Taq DNA Polymerase, recombinant RNase Inhibitor, Ultrapure nucleotides, and magnesium in a specialized buffer. Simply add the RT-PCR Master Mix to RNA template, primers, and RNase-free water and the reactions are ready to begin.

Product Number	Description	Pkg Size	Price
UB78370S1	RT-PCR Master Mix (2X) Includes: RT-PCR Master Mix (2X), 4 x 625 μL RNase-Free Water, 3 x 1 mL 25mM MgCl ₂ Solution, 1 x 1 mL	100 rxns	\$452.70

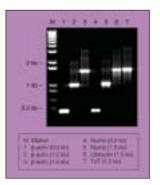
USB RT SCRIPT KIT

The RT Script Kit is designed for reverse transcription of RNA template to yield cDNA for PCR. The kit accomplishes the RT step in RT-PCR. USB Taq PCR Master Mix, the Taq PCR Kit or other USB PCR reagents can be used for the PCR step.

Product Number	Description	Pkg Size	Price
UB78360	RT Script Kit Includes: M-MLV Reverse Transcriptase RT Reaction Buffer (5X) (includes I Nucleotide Mix, Ultrapure: 10mM each dATP, dCTP, dGTP, Ribonuclease Inhibitor, Recombina Magnesium Chloride (25mM) RNase-Free (DEPC treated) Watel	dTTP nt (4 units/μL)	\$197.60

USB ONE-STEP RT-PCR KIT

The USB One-Step RT-PCR Kit comes complete and ready to use for RT-PCR. The kit can be used with diverse RNA samples and custom primers prepared by standard approaches. The kit is based on M-MLV Reverse Transcriptase and Taq DNA Polymerase, premixed together at concentrations optimized to balance sensitivity and specificity. An optimized reaction buffer, RNase inhibitor, Ultrapure dNTPs, supplemental magnesium chloride, and RNase-free water are also included, allowing quick, reliable set up of reactions.



Amplification of diverse RNA targets by one-step RT-PCR.

Target (source): ß-actin (100 ng total RNA, human liver), Numb (100 ng total RNA, human liver), Ubiquitin (1 μ g total RNA, Arabidopsis leaf), and Terminal Deoxynucleotidyl Transferase (TdT) (100 ng polyA RNA, calf thymus). Gene specific primers were designed to generate products of particular sizes.

Product Number	Description	Pkg Size	Price
UB78350	One-Step RT-PCR Kit Includes: RT-PCR Enzyme Mix RT-PCR Reaction Buffer, 5X (include Ultrapure PCR Nucleotide Mix: 10mM each dATP, dCTP, dGTP, d Ribonuclease Inhibitor, Recombinan Magnesium Chloride, 25mM RNase-Free (DEPC treated) Water	TTP	\$253.40

USB TWO-STEP RT-PCR KIT

The USB Two-Step RT-PCR Kit is a versatile kit well suited for diverse RT-PCR applications. Two-step RT-PCR, involves carrying out the RT (or cDNA synthesis) step in one tube and the PCR step in another tube with gene specific primers, for detection of a single target from a single RNA sample. The two-step/gene specific primer format is excellent for qualitative analysis of gene expression, highly detailed analysis of RNA splice variants, and optimization of PCR independent of RT. The Two-Step RT-PCR Kit is one kit with many applications.

Product Number	Description	Pkg Size	Price
UB78355	Two-Step RT-PCR Kit Includes: M-MLV Reverse Transcriptase Taq DNA Polymerase RT Reaction Buffer (5X) (includ PCR Reaction Buffer (10X) (inc PCR Nucleotide Mix, Ultrapure 10mM each dATP, dCTP, dG Ribonuclease Inhibitor, Recomf Magnesium Chloride (25mM) RNase-Free (DEPC-treated) W	cludes MgCl₂) : TP, dTTP binant (4 units/μL)	\$283.40



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USB FideliTaq[™] DNA POLYMERASE

USB FideliTaq[™] DNA Polymerase combines high quality USB recombinant Taq DNA Polymerase with a high-fidelity, proofreading polymerase. This enzyme blend has the 5'→3' exonuclease activity of Taq DNA polymerase as well as the 3'→5' exonuclease activity of the proofreading polymerase. FideliTaq[™] DNA Polymerase increases amplification fidelity approximately 3-6 times over Taq DNA Polymerase alone and allows for amplification of longer product sizes.

Product Number	Description	Pkg Size	Price
UB71180S1	FideliTaq [™] DNA Polymerase, 5 units/µL	50 units	\$51.70
UB71180S2	FideliTaq [™] DNA Polymerase, 5 units/μL	250 units	198.70
UB71180S3	FideliTaq [™] DNA Polymerase, 5 units/μL	1000 units	716.80
UB71180S4	FideliTaq [™] DNA Polymerase, 5 units/μL	5 x 250 units	872.70
UB71180S5	FideliTaq [™] DNA Polymerase, 5 units/μL	5000 units	2,893.10

USB FideliTaq[™] PCR MASTER MIX PLUS

FideliTaq[™] PCR Master Mix Plus includes FideliTaq[™] PCR Master Mix with PCR-Qualified H₂O and MgCl₂ solution for added convenience.

Product Number	Description	Pkg Size	Price
UB71183	FideliTaq [™] PCR Master Mix Plus Includes: FideliTaq PCR Master Mix (2X), 4 x PCR-Qualified Water, 3 x 1 mL 25mM MgCl ₂ ,1 x 1 mL	100 rxns 625 μL	\$190.00

USB HotStart-IT[™] Taq DNA POLYMERASE

HotStart-IT[™] Taq DNA Polymerase has been designed for PCR applications that demand extremely high specificity and sensitivity. It uses a novel hot start method called primer-sequestration. It combines highquality Taq DNA Polymerase with a recombinant protein which binds and sequesters primers at lower temperatures making them unavailable for use by Taq DNA Polymerase. The primer-sequestration technique effectively blocks DNA systhesis from mis-priming events at lower temperature.

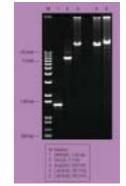


Increased specificity of HotStart-IT[™] Taq DNA Polymerase. The single-copy numb gene was amplified from the indicated amounts of human genomic DNA with standard Taq DNA Polymerase (-) or with HotStart-IT[™] Taq DNA Polymerase (+). Primers were designed with a 3 bp overlap at their 3'-ends to favor primer-dimer formation during reaction set-up at room temperature. Results demonstrate a shift from mainly primerdimers to the desired product when HotStart-IT[™] Taq DNA Polymerase is used.

Product Number	Description	Pkg Size	Price
UB71195S1	HotStart-IT™ Taq DNA Polymerase, 1.25 units/µL	50 units	\$53.80
UB71195S2	HotStart-IT [™] Taq DNA Polymerase, 1.25 units/µL	250 units	205.40
UB71195S3	HotStart-IT [™] Taq DNA Polymerase, 1.25 units/µL	1000 units	624.60
UB71195S4	HotStart-IT [™] Taq DNA Polymerase, 1.25 units/µL	5 x 250 units	813.20
UB71195S5	HotStart-IT [™] Taq DNA Polymerase, 1.25 units/µL	5000 units	2,868.00

USB FideliTaq[™] PCR MASTER MIX (2X)

FideliTaq[™] PCR Master Mix (2X) combines high-quality USB FideliTag[™] Tag DNA Polymerase, a high-fidelity, proofreading polymerase and USB Ultrapure nucleotides in a specialized buffer formulation. This ready-to-use mix increases amplification fidelity approximately 3-6 times over Taq DNA Polymerase alone and allows for amplification of longer product sizes. The mix generates products whose ends are compatible with either blunt-end or TA cloning procedures. FideliTaq" PCR Master Mix provides robust and reliable performance for PCR applications in which high-fidelity or longer product sizes are required. Since the mix is pre-formulated, experimental variability is significantly reduced.



Range of targets amplified with FideliTaq[¬] PCR Master Mix. Single copy NRAGE (1) and Numb (2) were amplified from 1 ng human genomic DNA. Single-copy ß-globin (3) was amplified from 100 ng human genomic DNA. Both He 20.7 kb (4) and 35.0 kb (5) lambda targets were amplified from 1 ng lambda DNA. No magnesium optimization was required, as 1.5mM final magnesium concentration was used in all reactions.

Product Number	Description	Pkg Size	Price
UB71182S1	FideliTaq [™] PCR Master Mix (2X)	100 rxns	\$164.90

USB HotStart-IT[™] Taq MASTER MIX (2X)

HotStart-IT[™] Taq Master Mix (2X) combines USB recombinant Taq DNA Polymerase, a recombinant hot start protein and USB Ultrapure nucleotides in a proprietary reaction buffer. This ready-to-use mix is convenient and significantly reduces time-comsuming optimization.

Product Number	Description	Pkg Size	Price
UB71196S1	HotStart-IT™ Taq Master Mix (2X)	25 rxns	\$44.40
UB71196S2	HotStart-IT [™] Taq Master Mix (2X)	100 rxns	150.30
UB71196S3	HotStart-IT™ Taq Master Mix (2X)	500 rxns	617.60

USB BUFFERS FOR PCR

Product Number	Description	Pkg Size	Price
UB71167S1	Magnesium Chloride (MgCl ₂) 25mM Solution	1 mL	\$24.20
UB71167S2	Magnesium Chloride (MgCl ₂) 25mM Solution	5 x 1 mL	51.50
UB71165S1	PCR Reaction Buffer with MgCl ₂ (10X)	1 mL	28.80
UB71166S1	PCR Reaction Buffer without MgCl ₂ (10X)	1 mL	28.80

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USB provides the PCR tools needed for a variety of applications. High quality USB Taq DNA Polymerase, Taq PCR Master Mixes and Ultrapure PCR Nuclotides will routinely give reliable results. In addition, kits for RT-PCR are available in both One-Step and Two-Step formats. For PCR purification, USB offers ExoSAP-IT[®], the revolutionary clean-up tool that eliminates dNTPs and primers fast, with no columns and no sample loss.

USB Taq DNA POLYMERASE

Taq DNA Polymerase is a thermostable enzyme derived from *Thermus aquaticus* which is purified from *E. coli* overexpressing native Taq DNA Polymerase. USB Taq is functionally tested and has no detectable contaminating endonucleases or exonucleases. Taq DNA Polymerase withstands repeated incubations at 95°C without a significant decrease in enzyme activity, and is suitable for routine PCR. USB Taq DNA Polymerase is supplied with 10X PCR Buffer plus a separate tube of 25mM MgCl₂ for optimizing PCR conditions. Each lot is tested for product yield and length in PCR amplification.

Product Number	Description	Pkg Size	Price
	Taq DNA Polymerase, 5 units/ μ L		\$17.50
	Taq DNA Polymerase, 5 units/ μ L		87.30
UB71160S3	Taq DNA Polymerase, 5 units/μL		281.30
	Taq DNA Polymerase, 5 units/μL		
UB71160S5	Taq DNA Polymerase, 5 units/µL	5000 units	1,282.40

USB Taq PCR MASTER MIX

USB Taq PCR Master Mix is supplied as a convenient 2X pre-mixed formulation containing USB Taq DNA Polymerase, Ultrapure nucleotides and reaction buffer optimized for a wide variety of PCR applications. Use of Taq PCR Master Mix provides for robust and reliable performance in PCR amplification. Since the mix is prepared from high quality reagents and is thoroughly QC tested, experimental variability is significantly reduced.

Product Number	Description	Pkg Size	Price
UB71162S1	Taq PCR Master Mix (2X) Sufficient for 100 reactions	100 rxns	\$106.20

USB RubyTaq[™] DNA POLYMERASE

RubyTaq[™] DNA Polymerase contains high-quality USB Taq DNA Polymerase with two inert dyes that serve as tracking dyes in gel electrophoresis. This greatly simplifies analysis of PCR reactions because no loading dyes or compounds that increase sample density need to be added prior to gel electrophoresis. During gel electrophoresis, RubyTaq[™] separates into 2 colors, magenta and yellow, for easy visualization (Figure 1). The magenta dye runs in a range between 500 bp (2% gels) and 1500 bp (0.8% gels) and the yellow dye runs at less than 10 bp. Because the dyes are inert during PCR, RubyTaq[™] DNA Polymerase provides the same outstanding performance as standard USB Taq DNA Polymerase.

Product Number	Description	Pkg Size	Price
UB71190S1	RubyTaq [™] DNA Polymerase, 1 unit/μL	50 units	\$22.70
UB71190S2	•	250 units	85.40
UB71190S3	RubyTaq [™] DNA Polymerase, 1 unit/μL	1000 units	283.80
UB71190S4	RubyTaq [™] DNA Polymerase, 1 unit/μL	5000 units	1,265.00

USB VeriQuest[™] qPCR MASTER MIX

Ready-to-use mix for real-time quantitative PCR

Applications

- Amplification from genomic DNA or cDNA
- Gene expression validation
- Genotyping assays
- Duplex PCR detection

The VeriQuest[™] qPCR Master Mix is a ready-to-use mix for real-time quantitative PCR (qPCR) on all PCR instruments that use ROX as a Passive Reference Dye. It is formulated for use with fluorescent probes, such as TaqMan[®] probes. The master mix contains a chemically modified Taq DNA polymerase, MgCl2, ultrapure nucleotides with an optimized dUTP:dTTP ratio, uracil-DNA glycosylase (UDG), and ROX Passive Reference Dye in a proprietary reaction buffer.

Features

- 2 Master Mixes are available
- · One-tube master mix with ROX reference dye included
- Same protocols, same probes, and same primers for standard mode amplification
- Consistency over a broad dynamic range: 9 orders of magnitude linear detection range with a correlation coefficient = 0.999
- Exceptional performance with challenging GC-rich regions
- Detect 2 copies of target from genomic DNA and differentiate less than 2-fold differences
- Contains dUTP and uracil-DNA glycosylase for optional carryover contamination prevention
- · Hot start PCR for room temperature reaction setup
- Stable at room temperature for 72 hours in a preassembled reaction
- Validated for use with a variety of 5' reporter fluorophores and 3' quenchers as well as TaqMan[®] MGB containing probes
- VeriQuest[™] Probe qPCR Master Mix is formulated for use with fluorescent probes
- VeriQuest[™] SYBR[®] Green qPCR Master Mix is formulated for SYBR[®] Green detection

Product Number	Description	Pkg Size	Price
UB75650S1	VeriQuest [™] Probe qPCR Master Mix	40 reactions (50 μ L)	\$109.00
UB75650S2	2 VeriQuest [™] Probe qPCR Master Mix	200 reactions (50 µL)	466.30
UB75650S3	VeriQuest [™] Probe qPCR Master Mix	400 reactions (50 µL)	870.80
UB75650S4	VeriQuest [™] Probe qPCR Master Mix	1000 reactions (50 µL)	1,972.70
UB75650S5	o VeriQuest [™] Probe qPCR Master Mix	2000 reactions (50 µL)	3,676.20
UB75600S1	VeriQuest [™] qPCR SYBR [®] Green Master Mix	40 reactions (50 μ L)	109.00
UB75600S2	Preventation of the second se	200 reactions (50 μ L)	445.20
UB75600S3	B VeriQuest [™] qPCR SYBR [®] Green Master Mix	400 reactions (50 μ L)	802.50
UB75600S4	VeriQuest [™] qPCR SYBR [®] Green Master Mix	1000 reactions (50 μ L)	1,896.50
UB75600S5	5 VeriQuest [™] qPCR SYBR [®] Green Master Mix	2000 reactions (50 $\mu\text{L})$	3,653.90

PCR PURIFICATION

EXOSAP-IT PCR product cleanup





Single-step PCR cleanup saves time and money, making it more efficient than column purification.

Time saving

- Single-step PCR cleanup
- · Easy to clean up multiple samples at the same time
- Eliminates hassle of columns

Effective

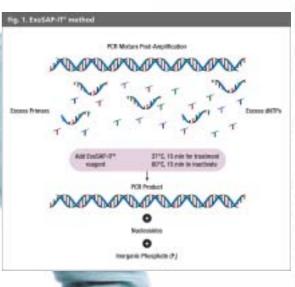
- Enzymatic cleanup removes primers and dNTPs
- Zero sample loss

Better value

· Easier workflow and lower cost per prep than columns

Description

The ExoSAP-IT[®] method is a unique, one-step enzymatic cleanup of PCR products that eliminates unincorporated primers and dNTPs so they do not interfere with downstream sequencing or SNP analysis. The ExoSAP-IT[®] cleanup reagent, based on Exonuclease I and Shrimp Alkaline Phosphatase, is added directly to the PCR product to degrade primers and dephosphorylate dNTPs that were not consumed in the reaction (Figure 1). Since the ExoSAP-IT[®] reagent is active in commonly used PCR buffers, no buffer exchange is required. Treatment is carried out for 15 minutes at 37°C and is followed by a 15-minute incubation period at 80°C to completely inactivate both enzymes. PCR products are then immediately ready for downstream sequencing reactions without any additional manipulation.



Product Number	Description	Pkg Size	Price
UB78200	ExoSAP-IT®	100 rxns	\$121.10
UB78201	ExoSAP-IT®	500 rxns	473.40
UB78202	ExoSAP-IT®	2000 rxns	1,505.80
UB78205	ExoSAP-IT®	5000 rxns	3,543.10

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PCR PURIFICATION

MACHEREY-NAGEL NucleoTraP® CR PCR CLEAN-UP

Fast and efficient PCR clean-up

The NucleoTraP® CR extraction system is especially designed for direct purification of DNA fragments from PCR assays without gel electrophoresis. DNA is reversibly adsorbed to the matrix with the aid of chaotropic agents. The NucleoTraP® CR matrix can selectively bind DNA fragments ≥ 100bp, while the primer and primer-dimer molecules remain in solution. After two washing steps, the DNA is eluted in a low salt elution buffer (5 mM Tris-HCl, pH 8.5) or another low salt medium (e.g. H₂O, pH 8.0). The eluted DNA shows a very high purity. All impurities such as enzymes, nucleotides and primer molecules are quantitatively removed. The eluted DNA can be used directly for all kinds of cloning experiments (ligation reactions, labeling reactions).

- Silica-matrix technology
- Direct purification of PCR products ٠
- Quantitative removal of primer and primer-dimer molecules
- High binding capacity of DNA fragments
- Elution in low-salt buffer or distilled water .
- 10 μL NucleoTraP[®] CR suspension binds up to 6 μg DNA

MACHEREY-NAGEL NucleoSpin® Extract II

Direct purification of PCR products

The NucleoSpin® Extract II procedure is the easiest method of direct purification of PCR products as well as for purifying DNA fragments from agarose gel. The kit includes one buffer for both applications.

With the NucleoSpin® Extract II method, DNA binds in the presence of chaotropic salt to a silica membrane. The binding mixture is loaded directly onto NucleoSpin® Extract II columns. Contaminations like salts and soluble macromolecular components are removed by a simple washing step with ethanolic buffer NT3. Pure DNA is finally eluted under low ionic strength conditions with slightly alkaline buffer NE (5 mM Tris-Cl, pH 8.5).

- Silica-membrane technology
- Effective removal of primers
- High recovery even for small fragments \geq 65 bp
- Reduced elution volume: 15 µL
- Two applications in one kit PCR clean-up and Gel extraction

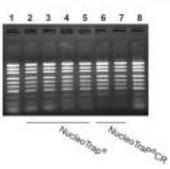
NucleoSpin® Extract II procedure for extraction of DNA from agarose gels

Fast procedure

A mixture of a 1000 bp PCR product and 4 µg added primer (20 bp) was purified using NucleoTraP® CR.

The PCR product was eluted with 50 µL distilled water (pH 8.0). 10 µL of the reaction mixture were applied to a 5% agarose gel

- 1: Molecular weight marker (100 bp ladder)
- 2: PCR product with additional primer molecules
- 3: PCR product after purification with NucleoTraP® CR



Purification of pUC19 - MspI DNA fragments using NucleoTraP[®] CR and NucleoTrap[®]

- 1, 8: DNA fragments (pUC19 Mspl, spiked with primer, 20mer), unpurified
- 2, 3: DNA fragments from TAE gel, purified using NucleoTrap
- 4, 5: DNA fragments from TBE gel, purified using NucleoTrap[®] 6, 7: DNA fragments in PCR buffer, purified using NucleoTraP[®] CR

The figure shows the efficient primer removal using the NucleoTraP® CR kit.

Product Number	Description	Pkg Size	Price
MCN74058710	NucleoTraP [®] CR PCR Clean Up, 10 Preps Includes: NucleoTraP [®] CR Suspension and B	Kit uffers	\$29.60
MCN740587	NucleoTraP [®] CR PCR Clean Up, 100 Preps Includes: NucleoTraP [®] CR Suspension and B	Kit uffers	113.40

agarose gei + buffer NT solubilized gel slice binding washing alution highly pure DNA fragments ligation " **tabeling** restriction sequencing

Product Number	Description	Pkg Size	Price
MCN74060910	NucleoSpin® Extract II, 10 Preps Includes: NucleoSpin® Extract II Columns 2 mL NucleoSpin® Collecting Tubes Buffers	Kit	\$29.10
MCN74060950	NucleoSpin® Extract II, 50 Preps Includes: NucleoSpin® Extract II Columns 2 mL NucleoSpin® Collecting Tubes Buffers	Kit	94.70
MCN740609250	NucleoSpin® Extract II, 250 Preps Includes: NucleoSpin® Extract II Columns 2 mL NucleoSpin® Collecting Tubes Buffers	Kit	357.30

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MOLECULAR BIOLOG

USB EXONUCLEASE I

Exonuclease I hydrolyzes single-stranded DNA in the $3' \rightarrow 5'$ direction, releasing 5'-mononucleotides and leaving the terminal 5'-dinucleotide intact. Hydrolysis is processive and cannot proceed if the 3' terminus is phosphorylated. Exonuclease I can be used to measure the endonucleolytic cleavage of covalently closed circular single-stranded DNA reacted with an endonuclease of interest. In addition, DNA helicase activity can be measured utilizing Exonuclease I.

Exonuclease I is particularly useful in preparing the products of PCR for applications involving sequencing or labeling methods. Typically, the excess primers and any other extraneous single-stranded DNA present in PCR products will interfere with subsequent enzymatic reactions involving DNA synthesis. The hydrolytic properties of Exonuclease I degrade all single-stranded DNA present in the PCR mixture allowing the product to be used more efficiently in other applications. When combined with Shrimp Alkaline Phosphatase (UB70092) for dNTP dephosphorylation, the use of alternative purification methods, such as columns, gels or magnetic separations, are completely eliminated.

Product Number	Description	Pkg Size	Price
UB70073Z	Exonuclease I, Standard Conc.: 10 units/µL 2500units	2500 units	\$96.90
UB70073X	Exonuclease I, Standard Conc.: 10 units/µL 5000units	5000 units	180.20

USB SHRIMP ALKALINE PHOSPHATASE, RECOMBINANT (rSAP)

rShrimp Alkaline Phosphatase (rSAP) is a high specific activity, heatlabile alkaline phosphatase purified from a recombinant source and originally isolated from Pandalus borealis (arctic shrimp).

rShrimp Alkaline Phosphatase has approximately the same specific activity as Calf Intestinal Alkaline Phosphatase (CIAP), and like CIAP, is active in virtually all restriction enzyme reaction buffers. Unlike CIAP, rShrimp Alkaline Phosphatase is completely and irreversibly inactivated by heating reactions at 65°C for 15 min.

Applications:

- 1. Dephosphorylation of DNA prior to cloning
- 2. PCR Clean-Up for sequencing and SNP applications
- 3. Dephosphorylation of DNA prior to end-labelling using T4
- PNK or OptiKinase
- 4. Dephosphorylation of RNA
- 5. Protein dephosphorylation

Proven Performance - the Phosphatase benchmark

- Purified from a recombinant source
- 100% heat-inactivated in 5 min at 65°C
- Significantly improved storage stability at lower temperatures
- Very high specific activity
- Removes 5'-phosphates from DNA, RNA, dNTPs and proteins
- May be added directly to restriction enzyme digests
- No vector purification necessary
- · Requires no supplemental zinc or other additives for activity
- Works direct in many different buffers
- Easy treatment of unincorporated dNTPs in PCR products prior to DNA sequencing or SNP analysis

Product Number	Description	Pkg Size	Price
UB78390S1	Shrimp Alkaline Phosphatase, Recombinant (rSAP)	500 units	\$93.30
UB78390S2	Shrimp Alkaline Phosphatase Recombinant (rSAP)	1000 units	160.20
UB78390S3	Shrimp Alkaline Phosphatase, Recombinant (rSAP)	5000 units	495.30

USB SBE CLEAN-UP REAGENT

SBE Clean-Up Reagent is a specialized formulation of ExoSAP-I[₱], which is based on enzymatic degradation of unconsumed primers and dNTPs present in PCR products. SBE Clean-Up Reagent has been designed for use with the Beckman Coulter BioSciences SNPware[™] Core Reagent Kit (PN 101-04-300).

Product Number	Desc	ription	Pkg Size	Price
UB78260S1	SBE	Clean-Up Reagent	864 μL	\$2,582.40

USB SNP-IT[™] CLEAN-UP REAGENT

SNP-IT[™] Clean-Up Reagent is another specialized formulation of ExoSAP-IT[®], which is based on enzymatic degradation of unconsumed primers and dNTPs present in PCR products. SNP-IT[™] Clean-Up Reagent has been designed for use with the Orchid BioSciences SNPware[™] UHT Core Reagent Kit (PN 101-0043-00).

Product Number	Description	Pkg Size	Price
UB78320S1	SNP-IT [™] Clean-Up Reagent	864 μL \$	2,582.40

USB ULTRAPURE PCR NUCLEOTIDE MIXES

USB offers an extensive selection of Ultrapure nucleotides for a wide variety of applications. All USB Ultrapure nucleotides are functionally tested in PCR with USB Taq DNA Polymerase. Testing ensures that you are assured reliable and consistent results.

Product Number	Description	Pkg Size	Price
UB77212S1	PCR Nucleotide Mix 10mM solution each: dATP, dCTP, dGTP, dTTP	500 μL	\$87.80
UB77119S1	PCR Nucleotide Mix 25mM solution each: dATP, dCTP, dGTP, dTTP	500 μL	197.60
UB77330S1	PCR Nucleotide Mix with dUTP 10mM solution each: dATP, dCTP, dGTP, dUTP	500 μL	87.80

USB PCR PRODUCT PRE-SEQUENCING KIT

The PCR Product Pre-Sequencing Kit uses Shrimp Alkaline Phosphatase and Exonuclease I, to effectively remove excess dNTPs and primers present in the final PCR product reaction mixture. The enzymes are conveniently added to an aliquot of the PCR product mixture, incubated at 37°C, and then inactivated at 80°C. The PCR product is ready to be sequenced with standard sequencing reagents.

Product Number	Description	Pkg Size	Price
	PCR Product Pre-Sequencing Kit	100 rxns	\$98.40
	PCR Product Pre-Sequencing Kit PCR Product Pre-Sequencing Kit	500 rxns 2000 rxns	354.30 1,215.50

USB A-Taq-IT[™] PCR KIT

The A-Taq-IT[™] PCR Kit combines USB Taq DNA Polymerase and ExoSAP-IT[®] in one kit to offer a complete solution for amplification and purification of PCR products.

Product Number	Description	Pkg Size	Price
UB71175	A-Taq-IT [™] PCR Kit Includes: Taq DNA Polymerase, 250 units 10mM PCR Nucleotide Mix, Ultrapi 10X PCR Buffer 10X PCR Buffer without MgCl ₂ 25mM MgCl ₃ PCR-Qualified Water, Ultrapure ExoSAP-IT®	100 rxns ^{ure}	\$309.30

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SEQUENCING

USB THERMO Sequenase[™] CYCLE SEQUENCING KIT

The Thermo Sequenase[™] Cycle Sequencing Kit features an optimized protocol which requires as little as fmol amounts of template DNA. The use of Thermo Sequenase[™] allows for equally efficient incorporation of both ddNTPs and dNTPs in cycle sequencing reactions resulting in very uniform band intensities which can be read accurately. The characteristics of thermostability and accuracy make Thermo Sequenase[™] DNA Polymerase an excellent enzyme for cycle sequencing methods. This kit offers the choice of a three-dNTP extended primer method with internal labeled dNTPs or a 5' end-labeled primer method.

Product Number	Description	Pkg Size	Price
UB78500	Thermo Sequenase [™] Cycle Sequencing Kit Includes: Thermo Sequenase [™] Thermostable Pyrophosphatase Control DNA pUC18 Control Primer (-40 Forward, 23-mer) Cycle Mix 7-deaza-dGTP Cycle Mix dATP Cycle Mix dATP Cycle Mix dCTP ddGTP Termination Mix (7-deaza-dGTF ddATP Termination Mix (7-deaza-dGTF ddTTP Termination Mix (7-deaza-dGTF ddTTP Termination Mix (7-deaza-dGTF ddTTP Termination Mix (7-deaza-dGTF ddTCP Termination Mix (7-deaza-dGTF ddTCP Secure Stop Solution	2) 2) 2)	\$287.60

USB THERMO Sequenase[™] DYE PRIMER MANUAL CYCLE SEQUENCING KIT

The Thermo Sequenase[™] Dye Primer Manual Cycle Sequencing Kit is designed to be used with fluorescent dye-labeled primers and high-resolution fluorescence scanners. Sequencing reactions involve a termination step followed by standard slab gel electrophoresis and scanning of the gel to detect fluorescently tagged sequencing products.

The kit components have been optimized for sequencing directly from single bacterial colonies or plaques of M13 or lambda. No purification or pre-amplification is required. This kit permits rapid screening and sequencing of a large number of samples in a single working day. This kit can also be used for sequencing from 2 μ plasmids in yeast liquid culture. Isolation of yeast plasmids can be carried out using the USB Yeast Plasmid Isolation Kit.

Product Number	Description	Pkg Size	Price
UB79260	Thermo Sequenase [™] Dye Primer Manual Cycle Sequencing Kit Includes: Thermo Sequenase [™] with Thermostable Inorganic Pyropt Reaction Buffer (concentrate) Control DNA pUC19 Control Primer, TAMRA -40 Universal F ddG Termination Mix (7-deaza-dGTP) ddA Termination Mix (7-deaza-dGTP) ddT Termination Mix (7-deaza-dGTP) ddC Termination Mix (7-deaza-dGTP) Formamide Loading Dye		\$245.30



USB Sequenase[™] VERSION 2.0 DNA SEQUENCING KIT

The Sequenase[™] Version 2.0 DNA Sequencing Kit features Sequenase[™] Version 2.0 DNA Polymerase, the standard for high quality manual DNA sequencing. Sequenase[™] Version 2.0 DNA polymerase is a genetically engineered form of T7 DNA polymerase which retains extraordinary polymerase activity with virtually no 3'→5' exonuclease activity. It is highly processive, able to effectively incorporate nucleotide analogs for sequencing (dideoxy NTPs, -thio dNTP, dITP, 7-deaza-dGTP, etc.) and is not easily impeded by template secondary structure. The kit includes all the reagents necessary to achieve high quality results. Use of the specially formulated buffers and mixes included in this core kit will maximize yield of sequence information.

Product Number	Description	Pkg Size	Price
UB70770	Sequenase [™] Version 2.0 DNA Sequencing Kit Includes: Sequenase [™] Version 2.0 DNA Polym Inorganic Pyrophosphatase Enzyme Dilution Buffer Glycerol Enzyme Dilution Buffer Sequenase Reaction Buffer (5X) Dithiothreitol Solution Mn Buffer Control DNA M13 mp18 Primer (-40 Universal) Labeling Mix (dGTP, 5X) ddGTP Termination Mix (for dGTP) ddATP Termination Mix (for dGTP) ddATP Termination Mix (for dGTP) ddCTP Termination Mix (for dGTP) ddGTP Termination Mix (for dTP) ddGTP Termination Mix (for dTP) ddGTP Termination Mix (for dTP) ddGTP Termination Mix (for dTP) ddCTP Termination Mix (for dTP) ddCTP Termination Mix (for dTP) Sequence Extending Mix (for dTP) Stop Solution	nerase	\$287.60

USB Sequenase[™] QUICK DENATURE PLASMID DNA SEQUENCING KIT

The Sequenase[™] Quick Denature Plasmid Sequencing Kit offers two simple and efficient denaturation methods that do not require precipitation of plasmid DNA. Both methods, Glycol/Glycerol and Alkali/Acid, allow for rapid generation of denatured template DNA suitable for use with standard Sequenase[™] Version 2.0 DNA Polymerase. In addition, this kit contains the 7-deaza-dGTP nucleotide mixes which provide stronger band intensities for resolving sequencing gel compressions.

Product Number	Description	Pkg Size	Price
UB70140	Sequenase [™] Quick Denature Plasmid Sequencing Kit Includes: Sequenase [™] Version 2.0 DNA Polym with Inorganic Pyrophosphatase Plasmid Reaction Buffer (concentrate Plasmid Denaturing Reagent NaOH, 1.0M Solution HCI, 1.0M Solution Dithiothreitol Solution Mn Buffer Control DNA pUC19 Primer (-40 Forward, 23-mer) Primer (-50 Reverse, 21-mer) Labeling Mix (7-deaza-dGT ddTPT Termination Mix (7-deaza-dGT ddTTP Ter) TP) TP) TP) TP)	\$287.60

SEQUENCING

Affymetrix" USB" Products

USB is recognized as the leading supplier of quality reagents for manual sequencing, including the well established Sequenase[™] and Thermo Sequenase[™] product lines. For sequence verification and accurate results, USB provides a selection of cycle sequencing and Sequenase kits, along with primers and related products.

USB SEQUENCING PRIMERS

Product Number	Description	Primer Sequence	Concentration	Pkg Size	Price
UB70705S1	M13 -20 Universal	5' GTAAAACGACGGCCAGT 3'	0.5 pmol/μL	50 pmol	\$42.70
UB70706S1	M13 -20 Universal	5' GTAAAACGACGGCCAGT 3'	5 pmol/μL	250 pmol	116.60
UB70763S1	M13 -40 Forward	5' GTTTTCCCAGTCACGAC 3'	0.5 pmol/μL	50 pmol	43.90
UB70736S1	M13 -40 Forward	5' GTTTTCCCAGTCACGAC 3'	5 pmol/μL	250 pmol	116.60
UB70181S1	M13 -40 Forward	5' GTTTTCCCAGTCACGACGTTGTA 3'	20 pmol/μL	500 pmol	202.90
UB73649S1	M13 -48 Reverse	5' AGCGGATAACAATTTCACACAGGA 3'	0.5 pmol/μL	500 pmol	202.90
UB73648S1	M13 -48 Reverse	5' AGCGGATAACAATTTCACACAGGA 3'	5 pmol/μL	5 nmol	968.90
UB71033S1	M13 -50 Reverse	5' TTGTGAGCGGATAACAATTTC 3'	0.5 pmol/μL	50 pmol	43.30
UB70144S1	M13 -50 Reverse	5' TTGTGAGCGGATAACAATTTC 3'	2 pmol/μL	200 pmol	101.40
UB70182S1	M13 -50 Reverse	5' TTGTGAGCGGATAACAATTTC 3'	20 pmol/μL	500 pmol	202.90
UB71809S1	M13 Reverse	5' TTCACACAGGAAACAG 3'	0.5 pmol/μL	50 pmol	42.50
UB71803S1	M13 Reverse	5' TTCACACAGGAAACAG 3'	5 pmol/μL	250 pmol	116.60
UB70145S1	Primer-40 Forward	5' GTTTTCCCAGTCACGACGTTGTA 3'	2 pmol/μL	200 pmol	101.40
UB71815S1	SP6 Promoter	5' CGATTTAGGTGACACTATAG 3'	0.5 pmol/μL	50 pmol	42.50
UB70801S1	SP6 Promoter	5' CGATTTAGGTGACACTATAG 3'	5 pmol/μL	250 pmol	116.60
UB71200S1	T3 Promoter	5' ATTAACCCTCACTAAAG 3'	5 pmol/μL	250 pmol	116.60
UB70803S1	T7 Promoter	5' TAATACGACTCACTATAGGG 3'	5 pmol/μL	250 pmol	116.60



USB LABELING MIX AND TERMINATION MIXES FOR SEQUENCING

Product Number	Description	Pkg Size	Price
UB70710S1	Labeling Mix for dGTP	100 μL	\$43.90
UB70712S1	Labeling Mix for dITP	100 μL	43.90
UB70740S1	Labeling Mix for 7-deaza-dGTP	100 μL	54.50
UB70714S1	ddA Termination Mix for dGTP	250 μL	43.90
UB70716S1	ddC Termination Mix for dGTP	250 μL	43.90
UB70718S1	ddG Termination Mix for dGTP	250 μL	43.90
UB70720S1	ddT Termination Mix for dGTP	250 μL	43.90
UB70728S1	ddA Termination Mix for dITP	125 μL	50.00
UB70730S1	ddC Termination Mix for dITP	125 μL	50.00
UB70732S1	ddG Termination Mix for dITP	125 μL	50.00
UB70734S1	ddT Termination Mix for dITP	125 μL	50.00
UB70742S1	ddG Termination Mix for 7-deaza-dGTP	250 μL	50.00
UB70744S1	ddA Termination Mix for 7-deaza-dGTP	250 μL	50.00
UB70746S1	ddT Termination Mix for 7-deaza-dGTP	250 μL	50.00
UB70748S1	ddC Termination Mix for 7-deaza-dGTP	250 μL	50.00

MACHEREY-NAGEL NucleoSEQ DYE TERMINATOR REMOVAL COLUMNS



NucleoSEQ will remove unincorporated dye terminators that can negatively affect analysis of sequencing results. Ex-

cess of dye terminators causes so-called "dye blobs" resulting in a partly unreadable sequence. The convenient spin columns are designed for fast, effective and cost efficient clean-up of sequencing reactions. The columns are prefilled with a dry size exclusion matrix which allows an efficient removal of dye terminators.

Product Number	Description	Pkg Size	Price
MCN74052310	NucleoSEQ, 10 Preps Includes: Prefilled NucleoSEQ columns 2 mL collecting Tubes	Kit	\$35.20
MCN74052350	NucleoSEQ, 50 Preps Includes: Prefilled NucleoSEQ columns 2 mL collecting Tubes	Kit	143.10
MCN740523250	NucleoSEQ, 250 Preps Includes: Prefilled NucleoSEQ columns 2 mL collecting Tubes	Kit	533.30

USB MOLECULAR BIOLOGY ENZYMES

Tested user friendly

USB is a leader in enzymology sustained by scientists with many years of experience and expertise in cloning and protein purification. The USB line of molecular biology products features heat-labile Shrimp Alkaline Phosphatase, OptiKinase[™], for improved phosphorylation and labeling regardless of the base at the 5'-end, along with a variety of Tested User Friendly[™] modifying enzymes, binding proteins, polymerases, exonucleases and more!

UB70034Y Calf Intestinal Alkaline Phosphatase (CAP) 1500 units \$137.80 UB7011Y Adv31 Nuclease 600 units \$68.30 UB7330051 Shrimp Alkaline Phosphatase (GAP) 500 units 93.30 UB7011Y Adv31 Nuclease 500 units 98.30 UB7303052 Shrimp Alkaline Phosphatase (GAP) 500 units 10.20 UB700271S Mung Bean Nuclease 3000 units 16.20 UB70010Y DNA Polymerase I 500 units 12.10 UB700571S Strunctoase-Free Kinow 12.01 UB700571S Strunctoase-Free Kinow 10.01 10.01 11.41 UB700572 Segunanae" Version 2.0 DNA 200 units 74.20 UB704571 4MK Reverse Transcriptase 100 units 24.40 UB7007752 Segunanae" Version 2.0 DNA 1000 units 67.30 UB704572 MuLV Reverse Transcriptase 1000 units 24.40 UB7007757 Segunanae" Version 2.0 DNA 1000 units 67.30 UB704572 MuLV Reverse Transcriptase 1000 units 24.40 UB700777 T DNA Polymerase 500 units 67.30 UB704572	Product Number	Description	Pkg Size	Price	Product Number	Description	Pkg Size	Price
Phosphalase (CAP) UB70011Y <i>Bar</i> /31 Nuclease 50 units 93.30 UB7383061 Shrim Akalaine Phosphatase (SAP) 1000 units 402.00 UB7002113 Mung Bean Nuclease 104.00 405.00 UB7030052 Shrim Akalaine Phosphatase (SAP) 1000 units 402.00 UB7002113 Mung Bean Nuclease 104.00 65.00 UB70057Y Exonuclease-Free Klenow 125 units 92.40 UB709538 Prophosphatase, Inorganic 0.1 units 65.00 UB7017Y Scounclease Free Klenow 125 units 72.40 UB709539 Prophosphatase, Inorganic 1. unit 56.00 UB271412 Klenow DNA Polymerase 1000 units 72.20 UB700414 AMV Reverse Transcriptase 1000 units 74.24 UB707757 Sequenase* Version 2.0 DNA 1000 units 67.20 UB704567 M-ML Reverse Transcriptase 1000 units 24.40 UB7007757 Sequenase* Version 2.0 DNA 1000 units 67.20 UB704562 M-MLW Reverse Transcriptase 1010 units 24.80 UB700177 TA DNA Polymerase 500 units 67								
UB7839051 Shrimp Akalaine Phosphatase (rSAP) 500 units 19.30 UB701997 Microscocal Nuclease 15 un 15.0 142.30 UB7839052 Shrimp Akalaine Phosphatase (rSAP) 1000 units 160.20 UB700191 St Nuclease 10 UB700191 St Nuclease 10 UB700191 St Nuclease 10 UB70077 Exonuclease-Free Klerow 125 unit 92.40 UB700577 Exonuclease-Free Klerow 750 units 31.34 UB700577 Exonuclease-Free Klerow 750 units 26.00 UB20411 Klerow DNA Polymerase I 100 units 124.01 100 units 124.01 UB707577 Sequenase* Versin 2.0 DNA 1000 units 260.00 UB20411 KNeverse Transcriptase 100 units 220.00 11.8 263.00 UB707452 AMV Reverse Transcriptase 100 units 263.00 UB704452 MAIN Reverse Transcriptase 100 units 244.80 UB7004172 AMV Reverse Transcriptase 100 units 244.80 UB704452 MAIN Reverse Transcriptase 100 units 243.00 UB70452 MAIN Reverse Transcriptase 100 units 244.80 UB704452 MAIN Reverse Transcriptase <t< td=""><td>UB70034Y</td><td></td><td>1500 units</td><td>\$137.80</td><td></td><td>e e e e e e e e e e e e e e e e e e e</td><td></td><td></td></t<>	UB70034Y		1500 units	\$137.80		e e e e e e e e e e e e e e e e e e e		
UB7330932 Shrimp Akialine Phosphatase (iSAP) 1000 units 160.20 UB7010Y Mung Bean Nuclease 3000 units 165.50 UB7030933 Simm Akialine Phosphatase (iSAP) 5000 units 465.30 UB700571 Nuclease 10 units 65.50 UB7007Y Exonuclease-Free Klenow 125 units 92.40 UB700572 1 units 56.00 UB21412 Klenow DNA Polymerase I 300 units 76.20 0.04 units/ul. 1 units 56.00 UB21412 Klenow DNA Polymerase I 300 units 76.20 UB700471 AMV Reverse Transcriptase 200 units 71.20 UB700775 Sequenase "Version 2.0 DNA 200 units 77.50 UB700411 AMV Reverse Transcriptase 1000 units 263.00 UB7002751 T4 DNA Polymerase 150 units 63.60 UB742252 Poly(A) Polymerase 1000 units 264.00 UB700172 T7 DNA Polymerase 250 units 63.00 UB742254 Poly(A) Polymerase 1000 units 26.40 UB700172 T7 DNA Polymerase 250 units 93.30 UB740251 T3 RNA Polymerase 1000 units 63.1	1107000004		500	00.00				
IUB7300303 Shrimp Akalane Phosphatase (GAP) 5000 units 495.30 UB7001951 S1 Nuclease 10 ku 60.50 UB700057Y Exonuclease-Free Klenow 750 units 313.40 UB700591 Pryophosphatase, Inorganic 0.1 units 50.00 UB701057Z Exonuclease-Free Klenow 750 units 28.00 UB700591 Pryophosphatase, Inorganic 0.1 units 56.00 UB27141Y Klenow DNA Polymerase I 1500 units 286.00 UB2040Y Prosphodesterase I 100 units 142.40 UB70757Z Exquenase* Version 2.0 DNA 1000 units 673.20 UB704472 AMV Reverse Transcriptase 100 units 248.50 UB70017Z T2 DNA Polymerase 150 units 77.50 UB704562 M-MLN Reverse Transcriptase 100 units 248.50 UB70017Z T2 DNA Polymerase 50 units 63.00 UB704522 Poly(A) Polymerase, Yeast 106 ku 724.50 UB7017Z T2 DNA Polymerase 250 units 83.30 UB704522 Poly(A) Polymerase, Yeast 106 ku 724.54 UB70417Z		· · · · · · · · · · · · · · · · · · ·						
UB70010Y DNA Polymerase1 500 units 112.10 UB70557 Exonuclesse-Free Klenow 125 units 313.40 UB70557Y Pyrophosphatase, Inorganic 0.1 units 56.00 UB21412 Klenow DNA Polymerase1 300 units 76.20 UB204214 Klenow DNA Polymerase1 300 units 77.20 UB70777Y Sequenase" Version 2.0 DNA 200 units 248.00 UB204217 AVM Reverse Transcriptase 200 units 71.20 UB700775Z Sequenase" Version 2.0 DNA 1000 units 67.3.20 UB704252 MMUV Reverse Transcriptase 205 ku 138.20 UB7002751 T4 DNA Polymerase 150 units 67.3.20 UB704522 MMUV Reverse Transcriptase 100 units 244.40 UB700177 T7 DNA Polymerase 100 units 87.20 UB7068351 SPG RNA Polymerase 100 units 68.10 UB741151 rDNase I, RNase-Free 1000 units 87.20 UB7068521 SPG RNA Polymerase 1000 units 68.10 UB743572 DNase I, Solution 1000 units 87.20 UB7068252 SPG						•		
UB70057Y Exonuclease-Free Klenow 125 units 92.40 0.004 units/uL UB70057Z Exonuclease-Free Klenow 750 units 313.40 UB70953Y Pyrophosphatase, Inorganic 1 unit 56.00 UB2141Y Klenow DNA Polymerase I 300 units 76.20 UB20240Y Phosphodisetrae I 100 units 142.40 UB70757X Sequenase" Version 2.0 DNA 200 units 286.00 UB20240Y Phosphodisetrae I 100 units 142.40 UB70757X Sequenase" Version 2.0 DNA 100 units 673.20 UB70465Y MAUV Reverse Transcriptase 100 units 244.00 UB7002752 T4 DNA Polymerase 150 units 77.50 UB70425Y Poly(A) Polymerase, Yeast 10 ku 172.60 UB70017Y T7 DNA Polymerase 550 units 88.30 UB7008851 PS6 RNA Polymerase 500 units 616.00 UB7041151 rDNase I, Rasse-Free 1000 units 87.30 UB700817Y TAN Polymerase 5000 units 61.00 UB730457S DNase I, Solution 100 units 87.30								
UB700572 Exonuclease-Free Klenow 750 units 313.40 UB70953Y Pyrophosphalase, Inorganic 1 unit 56.00 UB21412 Kienow DNA Polymerase I 300 units 76.20 0.04 unisjul. 100 units 142.40 UB70777 Sequenase" Version 2.0 DNA 200 units 224.40 UB700172 AVM Reverse Transcriptase 200 units 243.00 UB7007772 Sequenase" Version 2.0 DNA 200 units 77.50 UB700412 AVM Reverse Transcriptase 100 units 263.00 UB7002752 T4 DNA Polymerase 150 units 77.50 UB704037 E cor/RNA Polymerase 100 units 244.80 UB700172 T7 DNA Polymerase 250 units 83.00 UB700852 P56 RNA Polymerase 1500 units 66.10 UB7041711 TONas I, Rasse-Free 2500 units 81.20 UB700127 T3 RNA Polymerase 1500 units 66.10 UB7304152 DNase I, Solution 100 units 82.30 UB700177 T3 RNA Polymerase 5000 units 68.10 UB7304152 DNase I, Solution		*			087095051		0.1 units	50.00
UB21411Y Klenow DNA Polymerase I 300 units 76.20 0.44 units/l.1 0.44 units/l.1 UB2141Z Klenow DNA Polymerase I 1500 units 286.00 UB20240Y Phosphodiesterase I 100 units 142.40 UB7075X Sequenase* Version 2.0 DNA 1000 units 673.20 UB70454 AMV Reverse Transcriptase 1000 units 263.00 UB70027S2 T4 DNA Polymerase 150 units 77.50 UB704652 M-MLV Reverse Transcriptase 100 units 244.80 UB70017Y TA DNA Polymerase 50 units 266.00 UB704252 Poly(A) Polymerase, Yeast 10k units 244.80 UB70017Y TA DNA Polymerase 250 units 83.30 UB700851 78 RNA Polymerase 1500 units 65.10 UB741151 rDNase I, Shution 100 units 81.30 UB700512 78 RNA Polymerase 5000 units 6000 units 109.00 UB741452 DNase I, Solution 100 units 82.40 UB700171 78 RNA Polymerase 5000 units 109.00 UB7436722 DNase I, Solution						·	1 unit	FC 00
UB21412 Klenow DNA Polymerase 1500 units 286.00 UB20240Y Phosphodiesterase I 100 units 142.40 UB7077Y Sequenae" Version 2.0 DNA 200 units 204.40 UB70041Y AWV Reverse Transcriptase 200 units 77.20 UB7077SZ Sequenaes" Version 2.0 DNA 100 units 673.20 UB70456Y M-MLV Reverse Transcriptase 25 ku 183.20 UB70027S1 T 4 DNA Polymerase 1500 units 77.50 UB70466Y M-MLV Reverse Transcriptase 100 units 244.00 UB70017Z T DNA Polymerase 50 units 63.60 UB70452Y Poly(A) Polymerase, Yeast 25 ku 294.40 UB7017Z T DNA Polymerase 200 units 83.30 UB70051Y T 8 NA Polymerase 1000 units 65.10 UB743651 DNase I, Solution 100 units 321.60 UB70051Y T 8 NA Polymerase 000 units 109.00 UB7436521 DNase I, Solution 500 units 321.60 UB70017Y T R NA Polymerase 000 units 109.00 119.00 000 units 1					06709531		i unit	50.00
UB70775Y Seguenase" Version 2.0 DNA Polymerase 200 units 204.40 UB70041Y AMV Reverse Transcriptase 200 units 71.20 UB70775Z Sequenase" Version 2.0 DNA Polymerase 1000 units 673.20 UB70456Z AMV Reverse Transcriptase 1000 units 263.00 1000 units 63.10 1007025Z 7 NA Polymerase 1000 units 63.10 10870051Z 7 RNA Polymerase 1000 units 163.10 10870051Z 7 RNA Polymerase 1000 units 108.00 10870051Z 7 RNA Polymerase 1000 units 108.00 10870051Z 7 RNA Polymerase, 80 units/uL 6000 units 109.00 10870051Z 7 RNA Polymerase, 80 units/uL 6000 units 109.00 10870051Z 7 RNA Polymerase, 80 units/uL <		*					100 unito	142.40
Polymerase Polymerase UB7075Z Sequenase" Version 2.0 DNA 1000 units 673.20 UB70456Y M.MLV Reverse Transcriptase 108 to 524.70 UB7002751 T4 DNA Polymerase 150 units 77.50 UB70456Y M.MLV Reverse Transcriptase 100 ku 524.70 UB7002721 T4 DNA Polymerase 50 units 276.00 UB74252 Poly(A) Polymerase, Yeast 28 ku 244.80 UB700177 T7 DNA Polymerase 500 units 83.30 UB700852 SP6 RNA Polymerase, Yeast 25 ku 29.44 UB701717 T7 DNA Polymerase 200 units 87.20 UB700852 SP6 RNA Polymerase, Yeast 25 ku 29.44 UB7841151 rDNase I, Solution 100 units 87.20 UB700852 T3 RNA Polymerase, 00 units/µL 6000 units 109.00 UB1436575 DNase I, Solution 100 units 109.00 UB700174 T7 RNA Polymerase, 80 units/µL 6000 units 109.00 UB70374 Exonuclease I, Solution 100 units 192.00 UB700417 T7 RNA Polymerase, 80 units/µL 600 units		*						
UB70775Z Sequenase" Version 2.0 DNA Polymerase 1000 units 673.20 UB70456Z M-MLV Reverse Transcriptase 100 ku 524.70 UB70027S1 T4 DNA Polymerase 150 units 77.50 UB70456Z M-MLV Reverse Transcriptase 100 ku 524.80 UB70027S2 T4 DNA Polymerase 750 units 266.00 UB74225Y Poly(A) Polymerase, Yeast 100 units 63.60 UB70017S1 T7 DNA Polymerase 50 units 63.80 UB7008S2 SP6 RNA Polymerase 500 units 63.10 UB78411S2 TDNase I, Nase -Free 1000 units 85.30 UB7008S2 SP6 RNA Polymerase 5000 units 65.10 UB14367S2 DNase I, Solution 100 units 83.30 UB7001YT T7 RNA Polymerase 5000 units 109.00 UB14367S2 DNase I, Solution 100 units 83.30 UB7001YT T7 RNA Polymerase, 80 units/µL 6000 units 109.00 UB7814S1 Shrimp DNase, Recombinant 100 units 192.00 17 RNA Polymerase, 80 units/µL 6000 units 193.30 UB7004S2	06/0//51		200 units	204.40		•		
Polymerase UB704622 M-ML Reverse Transcriptase 100 ku 524.70 UB70027S1 T4 DNA Polymerase 150 units 77.50 UB780407 <i>E. col</i> /RNA Polymerase, Yeast 10 ku 244.80 UB70027S1 T7 DNA Polymerase 50 units 66.60 UB74225Z Poly(A) Polymerase, Yeast 25 ku 294.40 UB70017Y T7 DNA Polymerase 250 units 86.30 UB70085Z SP6 RNA Polymerase, Yeast 25 ku 294.40 UB70817Z TA DNA Polymerase 250 units 86.30 UB70085Z SP6 RNA Polymerase 1000 units 63.10 UB14367S1 DNase I, Solution 100 units 87.20 UB70047Y T7 RNA Polymerase, 80 units/µL 6000 units 109.00 UB78314S2 Shrimp DNase, Recombinant 100 units 92.50 UB7001Y T7 RNA Polymerase, 80 units/µL 30 ku 441.60 UB70073X Exonuclease I 2500 units 92.60 UB70194Y Ribonuclease A, 10 mg 98.30 UB70049Y Exonuclease V 200 units 92.40 UB70194Y Ribonuc	110707757		1000 upita	672.20		•		
UB70027S1 T4 DNA Polymerase 150 units 77.50 UB78040Y <i>E</i> .cor/RNA Polymerase 100 units 244.80 UB70027S2 T4 DNA Polymerase 750 units 266.00 UB7422F Poly(A) Polymerase, Yeast 100 units 244.80 UB70017Z T7 DNA Polymerase 250 units 89.30 UB700852 SP6 RNA Polymerase, Yeast 100 units 63.10 UB7411S1 rDNase I, RNase-Free 1000 units 87.20 UB700852 SP6 RNA Polymerase 5000 units 68.10 UB740152 DNase I, Shase-Free 2000 units 185.30 UB700512 T3 RNA Polymerase 5000 units 169.10 UB740572 DNase I, Solution 500 units 321.60 UB700717 T7 RNA Polymerase, 80 units/ ₁₄ 600 units 109.00 UB7801425 Shrimp DNase, Recombinant 100 units 322.50 UB700127 T7 RNA Polymerase, 80 units/ ₁₄ 30 ku 441.60 UB700232 Exonuclease I 5000 units 322.40 UB701947 Ribonuclease A, s0 units/ ₁₄ 30 ku 441.60 UB700242 <td>UB/0//52</td> <td>•</td> <td>1000 units</td> <td>073.20</td> <td></td> <td>•</td> <td></td> <td></td>	UB/0//52	•	1000 units	073.20		•		
UB7002752 T4 DNA Polymerase 750 units 266.00 UB74225Y Poly(A) Polymerase, Yeast 10 ku 172.60 UB70017Y T7 DNA Polymerase 50 units 63.60 UB74225Z Poly(A) Polymerase, Yeast 25 ku 294.40 UB70017Y T7 DNA Polymerase 1000 units 86.30 UB700825 SP6 RNA Polymerase 5000 units 66.10 UB743151 DNase I, RNase-Free 1000 units 86.30 UB700825 SP6 RNA Polymerase 5000 units 219.40 UB143657S DNase I, Solution 100 units 86.30 UB70071Y T7 RNA Polymerase, 00 units/L 6000 units 199.00 UB1436551 DNase I, Lyophilized 5 mg 123.50 UB70071Y T7 RNA Polymerase, 00 units/L 30 ku 441.60 UB70073X Exonuclease I 2500 units 98.90 UB70047Y T7 RNA Polymerase, 80 units/L 30 ku 441.60 UB70073X Exonuclease I 5000 units 92.50 UB70047Y Ribonuclease A, Solution 100 mg 165.10 UB70040Y Exonuclease V <td>1107000701</td> <td>•</td> <td>150 upito</td> <td>77 50</td> <td></td> <td>•</td> <td></td> <td></td>	1107000701	•	150 upito	77 50		•		
UB70017Y T7 DNA Polymerase 50 units 63.60 UB70425Z Poly(A) Polymerase, Yeast 25 ku 294.40 UB70017Z T7 DNA Polymerase 250 units 89.30 UB7008851 SP6 RNA Polymerase 500 units 63.10 UB7841152 rDNase I, RNase-Free 2500 units 86.30 UB700512 T3 RNA Polymerase 5000 units 65.10 UB14367S1 DNase I, Solution 500 units 321.60 UB70017Y T7 RNA Polymerase, 20 units/µL 6000 units 199.00 UB78311S1 DNase I, Lopohlized 5 mg 123.50 UB700172 T7 RNA Polymerase, 80 units/µL 6000 units 199.00 UB700172 Exonuclease I 2500 units 392.50 UB70012 T7 RNA Polymerase, 80 units/µL 6000 units 199.00 UB700732 Exonuclease I 5000 units 392.20 UB701942 Ribonuclease A, Solution 100 mg 98.30 UB70040Z Exonuclease V 200 units 122.40 UB21051 Ribonuclease A, Solution 100 mg 165.10 UB70042Z Exonuclease		•				•		
UB70017Z T7 DNA Polymerase 250 units 89.30 UB7008S1 SP6 RNA Polymerase 1500 units 63.10 UB78411S1 rDNase I, RNase-Free 1000 units 87.20 UB7008S2 SP6 RNA Polymerase 5000 units 168.10 UB74811S2 rDNase I, Solution 100 units 86.30 UB70051Z T3 RNA Polymerase 5000 units 219.40 UB436S51 DNase I, Lyophilized 5 mg 123.50 UB70017 T7 RNA Polymerase, 80 units/µL 6000 units 109.00 UB436S51 DNase I, Lyophilized 5 mg 123.50 UB70017 T7 RNA Polymerase, 80 units/µL 30 ku 441.60 UB70073X Exonuclease I 2500 units 99.00 UB70194Z Ribonuclease A, Molecular Biology Grade, Solution 1 mg 25.00 UB700402 Exonuclease III 254 ku 225.40 UB270194Z Ribonuclease A, Solution 100 mg 165.10 UB700402 Exonuclease V, Arec B, C, D 200 units 395.20 UB70034Z Ribonuclease I 1 gm 233.90 UB70064Z Exon		· · · · · · · · · · · · · · · · · · ·						
UB78411S1 rDNase I, RNase-Free 1000 units 87.20 UB70088S2 SP6 RNA Polymerase 5000 units 168.10 UB1436751 DNase I, Solution 100 units 86.30 UB700512 T3 RNA Polymerase 5000 units 65.10 UB1436751 DNase I, Solution 500 units 321.60 UB700512 T3 RNA Polymerase, 80 units/µL 6000 units 109.00 UB7831451 Shrimp DNase, Recombinant 500 units 322.50 UB700012 T7 RNA Polymerase, 80 units/µL 6000 units 109.00 UB700372 Exonuclease I 5000 units 96.20 UB70194Y Ribonuclease A, Lyophilized 100 mg 88.30 UB700372 Exonuclease III 2500 units 92.40 UB70194Y Ribonuclease A, Solution 100 mg 86.10 UB700402 Exonuclease V 200 units 92.40 UB70542 Ribonuclease A, Solution 100 mg 165.10 UB700402 Exonuclease V, Rec B, C, D 200 units 1,021.60 UB7033002S1 Ribonuclease A, Solution 100 mg 165.10 UB700542 Exonuc		•						
UB78411S2 rDNase I, RNase-Free 2500 units 185.30 UB70051Y T3 RNA Polymerase 5000 units 251.00 UB1436751 DNase I, Solution 500 units 210.40 UB70051Y T3 RNA Polymerase 5000 units 219.40 UB1436752 DNase I, Lyophilized 5 mg 123.50 UB70051Y T7 RNA Polymerase, 20 units/µL 6000 units 109.00 UB7831452 Shrimp DNase, Recombinant 100 units 192.00 UB70001Y T7 RNA Polymerase, 80 units/µL 30 ku 441.60 UB70073Z Exonuclease I 2500 units 96.90 UB70194Y Ribonuclease A, Lyophilized 10 mg 89.30 UB70023Z Exonuclease III 2500 units 22.0 UB70194Z Ribonuclease A, Solution 10 mg 80.10 UB70040Y Exonuclease V 200 units 22.40 UB7054Z Ribonuclease A, Solution 100 units 90.80 UB70640Y Exonuclease V, <i>Rec</i> B, C, D 200 units 72.30 UB70551Z Ribonuclease I 10 mg 23.0 UB70652Y Exonuclease V		•				•		
UB14367S1 DNase I, Solution 100 units 86.30 UB70051Z T3 RNA Polymerase, 20 units/µL 6000 units 109.00 UB14365TS2 DNase I, Solution 500 units 321.60 UB70047Y T7 RNA Polymerase, 20 units/µL 6000 units 109.00 UB14365TS1 DNase I, Lyophilized 5 mg 123.50 UB70017Y T7 RNA Polymerase, 80 units/µL 6000 units 109.00 UB70073Z Exonuclease I 5000 units 392.50 UB70073Y Ribonuclease A, Lyophilized 1 mg 25.00 UB70073Z Exonuclease II 5000 units 92.40 UB70194Y Ribonuclease A, Solution 1 mg 25.00 UB70073Z Exonuclease III 2000 units 92.40 UB70194Y Ribonuclease A, Solution 1 00 mg 40.10 UB70040Z Exonuclease V 200 units 1.02.160 UB7054Y Ribonuclease A, Solution 100 mg 165.10 UB70052Z Exonuclease V, <i>Rec</i> B, C, D 1000 units 179.60 UB2703302S1 Ribonuclease I 1 gm 233.00 UB70052Z Exonuclease VI <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td>						•		
UB14367S2 DNase I, Solution 500 units 321.60 UB70047Y T7 RNA Polymerase, 20 units/µL 6000 units 109.00 UB73014S1 DNase I, Lyophilized 5 mg 123.50 UB70017Y T7 RNA Polymerase, 80 units/µL 6000 units 109.00 UB78014S1 Shrimp DNase, Recombinant 500 units 392.50 UB70017Z T7 RNA Polymerase, 80 units/µL 30 ku 441.60 UB70073Z Exonuclease I 2500 units 96.90 UB70017Z Ribonuclease A, Lyophilized 100 mg 89.30 UB70023Z Exonuclease III 2500 units 92.40 UB70194Z Ribonuclease A, Solution 100 mg 165.10 UB70047Y T7 RNA Polymerase, 80 units/µL 6000 units 100 mg 165.10 UB70040Y Exonuclease V 200 units 22.40 UB70054Y Ribonuclease A, Solution 100 mg 165.10 UB70042Z Exonuclease V, Rec B, C, D 200 units 392.50 UB2709101 Ribonuclease H 200 units 90.80 UB70052Y Exonuclease VIII 1000 units 199.90 <td></td> <td></td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td>						· · · · · · · · · · · · · · · · · · ·		
UB14365S1 DNase, Lyophilized 5 mg 123.50 UB7001Y T7 RNA Polymerase, 80 units/µL 6000 units 109.00 UB78314S1 Shrimp DNase, Recombinant 100 units 109.00 UB70073Z Shrimp DNase, Recombinant 500 units 392.50 UB70073Z Exonuclease I 2500 units 96.90 UB70073X Exonuclease I 5000 units 96.90 UB70174 Ribonuclease A, Img 1 mg 25.00 UB70023Y Exonuclease III 5000 units 92.40 UB70194Z Ribonuclease A, Solution 1 mg 25.00 UB70040Z Exonuclease V 200 units 225.40 UB70194Z Ribonuclease A, Solution 100 mg 165.10 UB70040Z Exonuclease V, <i>Rec</i> B, C, D 200 units 395.20 UB703042T Ribonuclease H 250 units 90.80 UB70082Y Exonuclease VII 200 units 199.90 UB27086501S1 Ribonuclease I 1 mg 233.90 UB27086501S1 Lambda Exonuclease 100 units 199.90 UB71570S1 Ribonuclease II, Alpha 5000 units 21						·		
UB78314S1 Shrimp DNase, Recombinant 100 units 109.00 UB7001Z T7 RNA Polymerase, 80 units/µL 30 ku 441.60 UB703732 Exonuclease I 2500 units 392.50 UB70073X Ribonuclease A, Lyophilized 100 mg 89.30 UB70073X Exonuclease I 5000 units 92.40 UB70174X Ribonuclease A, Lyophilized 100 mg 89.30 UB70073X Exonuclease III 5000 units 92.40 UB70194Z Ribonuclease A, Lyophilized 100 mg 89.30 UB70073X Exonuclease III 25 ku 327.10 UB70194Z Ribonuclease A, Solution 5 mg 80.10 UB7040Y Exonuclease V 200 units 1.021.60 UB21210S1 Ribonuclease A, Solution 100 mg 165.10 UB70082Y Exonuclease V, <i>Rec</i> B, C, D 200 units 395.20 UB2709101 Ribonuclease I 1 gm 233.90 UB70082Y Exonuclease VII 1000 units 719.60 UB71571S1 Ribonuclease I, Alpha 200 units 326.30 UB70082Y T7 Gene 6 Exonuclease<								
UB78314S2 Shrimp DNase, Recombinant 500 units 392.50 UB78020Y Ribonuclease A, Lyophilized 100 mg 89.30 UB70073Z Exonuclease I 2500 units 96.90 UB70194Y Ribonuclease A, Lyophilized 100 mg 89.30 UB70023Y Exonuclease III 5000 units 96.90 UB70194Y Ribonuclease A, Solution 100 mg 80.10 UB70023Z Exonuclease V 200 units 225.40 UB70194Z Ribonuclease A, Solution 100 mg 165.10 UB70040Y Exonuclease V 200 units 72.30 UB70054Z Ribonuclease A, Solution 100 mg 165.10 UB70052Y Exonuclease VI 1000 units 72.30 UB27030251 Ribonuclease I 1 gm 233.90 UB70052Y Exonuclease VII 1000 units 719.60 UB71571S1 Ribonuclease I, Alpha 5000 units 216.30 UB70051Y T7 Gene 6 Exonuclease 100 units 327.10 UB78303Y Topoisomerase II, Alpha 200 units 327.10 UB78301S1 Uracil-DNA Glycosylase, Heat-Labile 100 units<			•					
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	UB70005X UB70042X	T4 DNA Ligase, 5 unit/μL	500 units	199.90	007034031		500 units	100.00

MOLECULAR BIOLOGY MARKERS AND PROTEINS

USB MOLECULAR BIOLOGY MARKERS AND PROTEINS

Product	Description	Pkg Size	Price
Number	Description	Size	Price
UB70028Y	Rec A Protein	200 µg	\$92.40
UB70028Z	Rec A Protein	1000 µg	316.30
UB70029Y	T4 Gene 32 Protein 1-5 μg/μL	100 µg	127.20
UB70029Z	T4 Gene 32 Protein 1-5 μg/μL	500 µg	459.30
UB74029Y	T4 Gene 32 Protein 10 μg/μL	300 µg	309.30
UB74029Z	T4 Gene 32 Protein 10 μg/μL	1000 µg	821.70
UB70076S1 UB70076S2	DNA, Activated Fish Sperm	500 µg	41.20
UB14375S1	DNA, Activated Fish Sperm	2 mg	152.90
UB14375S1	DNA, Calf Thymus DNA, Calf Thymus	100 mg 1 gm	38.40 256.20
UB1437352	DNA, <i>E. coli</i>	10 mg	230.20 96.40
UB14405S1	DNA, Fish Sperm	25 gm	34.60
UB14405S2	DNA, Fish Sperm	100 gm	89.80
UB14376S1	DNA, Fish Sperm, Potassium Salt	25 gm	24.90
UB14376S2	DNA, Fish Sperm, Potassium Salt	100 gm	58.10
UB78019S1	DNA, Fish Sperm, Sodium	10 gm	115.90
UB14377S1	DNA, Fish Sperm, Sodium Salt	25 gm	25.80
UB14377S2	DNA, Fish Sperm, Sodium Salt	100 gm	83.00
UB14394S1	DNA-Cellulose, Double-Stranded (dsDNA-Cellulose)	1 gm	45.60
UB14394S2	DNA-Cellulose, Double-Stranded (dsDNA-Cellulose)	5 gm	197.70
UB14394S3	DNA-Cellulose, Double-Stranded (dsDNA-Cellulose)	10 gm	331.00
UB14395S1	DNA-Cellulose, Single-Stranded (ssDNA-Cellulose)	1 gm	45.60
UB14395S2	DNA-Cellulose, Single-Stranded (ssDNA-Cellulose)	5 gm	197.70
UB14395S3	DNA-Cellulose, Single-Stranded (ssDNA-Cellulose)	10 gm	331.00
UB78018S1	Lambda DNA, 0.5 µg/uL	250 µg	142.90
UB78018S2	Lambda DNA, 0.5 µg/uL	500 µg	226.30
UB76620S1	M13mp8, Single-Stranded, 0.2 µg/uL	10 µg	43.90
UB76620S2	M13mp8, Single-Stranded, 0.2 µg/uL	50 µg	127.20
UB70704S1	M13mp18, Single-Stranded, 0.2 µg/uL	50 µL	43.90
UB70704S2	M13mp18, Single-Stranded, 0.2 µg/uL	50 µg	127.20
UB71706S1	M13mp18 DNA, Single-Stranded, 1.0 µg/uL	50 µg	127.20
UB71706S2	M13mp18 DNA, Single-Stranded, 1.0 μg/uL	200 µg	267.10
UB71547S1	Oligo p(dT) Cellulose	1 gm	515.60
UB19817S1	Oligo p(dT) ₁₂₋₁₈ Sodium Salt	5 units	113.60
UB19817S2	Oligo p(dT) ₁₂₋₁₈ Sodium Salt	25 units	274.80
UB20497S1	Polyadenylic Acid, Potassium Salt (POLY [A])	100 mg	145.50
UB20497S2	Polyadenylic Acid, Potassium Salt (POLY [A])	250 mg	297.20
UB20539S1	Polydeoxy (Inosinate-Cytidylate) Acid, Sodium Salt	5 units	152.10
UB20539S2	Polydeoxy (Inosinate-Cytidylate) Acid, Sodium Salt	25 units	632.30
UB76628S1	pUC18 DNA, 0.2 μg/μL	10 µg	54.80
UB76628S2	pUC18 DNA, 0.2 μg/μL	50 µg	141.90
UB76628S3	pUC18 DNA, 0.2 μg/μL	200 µg	304.70
UB74070S1	pUC18 DNA, 1.Qug/µL	50 µg	137.80
UB74070S2	pUC18 DNA, 1.Qug/µL	200 µg	286.20
UB76632S1	pUC19 DNA, 0.2 μg/μL	10 µg	51.20
UB76632S2	pUC19 DNA, 0.2 μg/μL	50 µg	133.20
UB76632S3	pUC19 DNA, 0.2 μg/μL	200 µg	286.20

	Product Number	Description	Pkg Size	Price		
	UB76634S1	pUC19 DNA, 1.0 μg/μL	50 µg	\$133.20		
	UB76634S2	pUC19 DNA, 1.0 μg/μL	200 µg	286.20		
	UB70064S1	Lambda Bst E II Digest	100 µg	67.30		
	UB70061S1	Lambda Hind III Digest	100 µg	71.00		
	UB70061S2	Lambda Hind III Digest	5x100 µg	258.10		
	UB76710S1	PCR Markers, 50 - 2000 bp	250 μL	159.10		
	UB76712S1	DNA Ladder, 100 bp	500 μL	159.10		
	UB76714S1	DNA Ladder, 1 kb plus	500 μL	159.10		
	UB76722	RNA Ladder, 0.1 - 1 kb	50 µL	165.10		
	UB76724	RNA Markers, 0.2 - 10 kb	50 μL	165.10		
• • • •						
	USB DNA BINDING PROTEIN					

Single-Stranded DNA Binding Protein binds with high affinity in a cooperative manner to single-stranded DNA and does not bind well to doublestranded DNA. This protein has been used to visualize single-stranded DNA by electron microscopy. It has also been used in conjunction with *RecA* protein for carrying out site-directed mutagenesis and to select sequences from libraries of double-stranded DNA. SSB may also stimulate specific DNA polymerases used in DNA sequencing reactions and has been used to target restriction endonuclease digestions to specific sites in single-stranded DNA for subsequent mutagenesis. SSB has been shown to be effective in fluorescence polarization assays and eliminates pausing when sequencing through strong secondary structure. More recently, SSB was used to help obtain longer read lengths in pyrosequencing for SNP analysis.

Product Number	Description	Pkg Size	Price		
UB70032Y	Single-Stranded DNA Binding Protein (SSB)	100 µg	\$154.20		
UB70032Z	Single-Stranded DNA Binding Protein (SSB)	500 µg	483.60		
USB MUTATION DISCOVERY PROTEINS					

USB *E. coli* Mut Proteins are ideal for mutation detection and mismatch repair studies. This class of proteins simplifies the study of genetic variations. Mut S Protein, for example, actually detects disruption of normal base pairings without using primers. These products are thoroughly tested to ensure functional integrity and are offered exclusively from USB.

Product Number	Description	Pkg Size	Price
UB71432S1	Mut H	5 µg	\$166.60
UB71435S1	Mut L	25 µg	218.10
UB71422S1	Mut S	25 µg	218.10
UB71428S1	Mut Y (<i>E. coli</i> Adenine DNA Glycosylase)	100 µg	279.40
UB78333S1	T4 Endonuclease VII	1 mL	27.30

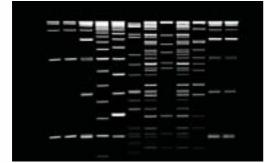
www.biolynx.ca

NUCLEIC ACID ELECTROPHORESIS GELS

ELCHROM READY-TO-USE GELS

Elchrom Mini gels are made of innovative hydrophilic materials that are non-acrylamide and non-agarose. The gels are specially designed for easy handling and convenience. They provide high performance, resolution and throughput.

- · Resistant to tearing
- Stable up to 95°C
- Inert; no enzyme inhibition
- Highly transparent with low background
- Covalently bound to plastic backing for easy handling
- Stained bands can be excised and used directly for PCR, sequencing and cloning
- Size range: 20 bp to 22000 bp
- · Available in 8 formats with 5 different running distances
- Wells are compatible with multichannel pipettes
- Compatible with most electrophoresis units. Best results are clearly achieved when gels are used in Elchrom's Origins electrophoresis unit (see page 124).



Precast Spreadex® EL 400 Mini gel at 200V for 2 hours in a regular electrophoresis unit.

ELCHROM GMA (Gene Mutation Analysis)

For SSCP and Heteroduplex Analysis

Elchrom's GMA gels are optimized for single strand conformational polymorphism (SSCP) and heteroduplex analysis. These methods are widely used for the detection of point mutations in DNA.

The SSCP method relies on different migration rates of single stranded DNA fragments in a non-denaturing gel run at a low temperature. Two single stranded DNA fragments whose sequence differs in just one base often migrate at rates that are sufficiently different to allow complete separation of the two bands. For successful SSCP, the length of the DNA fragment should be in the range of 150 to 350 bp. Gel electrophoresis should be performed at constant temperatures in the range of 5 to 20°C. Since the separation method is sensitive to small changes of temperature during electrophoresis, as well as the electric field strength, we recommend the use of the gel in Elchrom's Origins electrophoresis apparatus (see page 156).

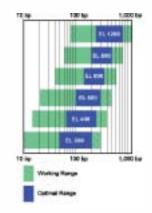
Product Number	Description	Pkg Size	Price
EL3501	GMA Mini, 8 & 12 wells/gel	10 gels	\$215.70
EL3526	GMA Wide Mini S-2x13, 13 wells/gel	12 gels	331.70
EL3548	GMA Wide Mini S-2x25, 25 wells/gel	12 gels	331.70



ELCHROM Spreadex[®]

Gels with the highest resolving power

Spreadex[®] gels provide unsurpassed resolution in the size range of 20 bp to 1000 bp. Each Spreadex[®] gel is characterized by an exclusion limit (EL). DNA molecules whose size is above the limit do not migrate in the gel even after prolonged electrophoresis. The gels are available with 6 different exclusion limits (see gel selection guide below), allowing you to zoom in the size range of interest. Ideal for use in microsatellite analysis, AFLP, small DNA fragment analysis (oligos, siRNA, methylated DNA), multiplex PCR, RFLP and GMOs.



Gel Selection Guide for Elchrom Spreadex® gels

Product Number	Descriptio	n*	Pkg Size	Price
EL3410	Spreadex [®] Includes:	Starter Kit Mini gels: EL 400, 600 and 800 Catamarans S-8 and S-12 40X TAE Running buffer, 50 mL Forceps, 1	Kit	\$160.50

Optimal Separation Range 50-200 bp, Working Range 10-300 bp

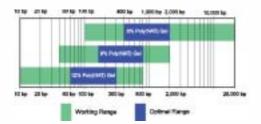
		surge ie	
EL3413 EL3426 EL3442 EL3472	EL 300 Mini, 8 & 12 wells/gel EL 300 Wide Mini S-2x13, 13 wells EL 300 Wide Mini S-2x25, 25 wells EL 300 Wide Mini S-2x104L, 104 wells	10 gels 12 gels 12 gels 12 gels	257.90 380.90 452.10 610.80
Optimal	Separation Range 100-300 bp, Working	Range 20)-500 bp
EL3415 EL3428 EL3494 EL3474	EL500 Mini, 8 & 12 wells/gel EL500 Wide Mini S-2x13, 13 wells/gel EL500 Wide Mini S-4x25, 25 wells/gel EL500 Wide Mini S-2x104L, 104 wells/gel	10 gels 12 gels 24 gels 12 gels	257.90 380.90 452.10 610.80
Optimal	Separation Range 200-500 bp, Working	Range 60)-800 bp
EL3417 EL3456 EL3476 EL3486	EL800 Mini, 8 & 12 wells/gel EL800 Wide Mini S-4x13, 13 wells/gel EL800 Wide Mini S-2x104L, 104 wells/gel EL800 Wide Mini S-2x200, 200 wells/gel	10 gels 24 gels 12 gels 12 gels	257.90 380.90 610.80 610.80
Optimal	Separation Range 250-800 bp, Working	Range 60)-800 bp
EL3419 EL3431 EL3497 EL3477	EL1200 Mini, 8 & 12 wells/gel EL1200 Mini Wide S-2x13, 13 wells/gel EL1200 Mini Wide S-4x25, 25 wells/gel EL1200 Mini Wide S-2x104L, 104 wells/gel	10 gels 12 gels 24 gels 12 gels	257.90 380.90 452.10 610.80

* Each box contains: 3 x 1.0 mL sample loading buffer (except Wide Mini S-4x13 which contains 1.0 mL sample loading buffer), Quality Control Certificate, short instructions, and a nylon string for removal of the plastic backing. Other gel sizes are available.

ELCHROM Poly(NAT)®

For fine separations in broad size ranges

Poly(NAT)® gels are the best choice for demanding separations in broad size ranges. They cover the DNA size range from about 50 bp to 22000 bp (see gel selection guide below). These gels are ideal for RFLP, RAPD, PCR, RNA up to 2 kb and minisatellite analysis. Poly(NAT)[®] gels are non-toxic, highly transparent and have low DNA diffusion after electrophoresis.



Gel selection guide for Elchrom Poly(NAT)® gels.

Optimal Separation Range 60-300 bp: Working Range 10-800 bp EL3012 12% Poly(NAT)® Mini, 8 & 12 wells/gel 10 gels \$224.80 EL3028 12% Poly(NAT)® Wide 12 gels 325.40 Mini S-2x13, 13 wells/gel 12 wells/gel 12 gels 325.40
EL3028 12% Poly(NAT) [®] Wide 12 gels 325.40
EL3050 12% Poly(NAT)® Wide 12 gels 325.40 Mini S-2x25, 25 wells/gel
EL3054 12% Poly(NAT)® Wide 24 gels 325.40 Mini S-4x13, 13 wells/gel
EL3098 12% Poly(NAT)® Wide 24 gels 325.40 Mini S-4x25, 25 wells/gel
Optimal Separation Range 180-800 bp: Working Range 50-2000 b
EL3009 9% Poly(NAT)® Mini, 8 & 12 wells/gel 10 gels 224.80
EL3027 9% Poly(NAT) [®] Wide 12 gels 325.40 Mini S-2x13, 13 wells/gel
EL3049 9% Poly(NAT)® Wide 12 gels 325.40 Mini S-2x25, 25 wells/gel
EL3053 9% Poly(NAT)® Wide 24 gels 325.40 Mini S-4x13, 13 wells/gel
EL3097 9% Poly(NAT)® Wide 24 gels 325.40 Mini S-4x25, 25 wells/gel
Optimal Separation Range 400-2000 bp: Working Range 100-20000 b
EL3006 6% Poly(NAT)® Mini, 8 & 12 wells/gel 10 gels 224.80
EL3026 6% Poly(NAT)® Wide 12 gels 325.40 Mini S-2x13, 13 wells/gel
EL3048 6% Poly(NAT)® Wide 12 gels 325.40 Mini S-2x25, 25 wells/gel
EL3052 6% Poly(NAT)® Wide 24 gels 325.40 Mini S-4x13, 13 wells/gel
EL3096 6% Poly(NAT)® Wide 24 gels 325.40 Mini S-4x25, 25 wells/gel

* Each box contains: 1.0 mL sample loading buffer, Quality Control Certificate, short instructions, and a nylon string for removal of the plastic backing.

ELCHROM PCR CheckIT

Gels for DNA analysis and High Throughput PCR analysis

PCR Check/T hydrogels are the only reusable non-agarose precast gels for PCR checking. PCR Check/T gels cover the size range from 100 bp to 4,000 bp and are available with or without EtBr. PCR Check/T gels can be reused up to 10 times by running the PCR products of the previous run in reverse.

Product Number	Description*	Pkg Size	Price	
EL3310EB	PCR Check/7 Starter Kit Includes: PCRCheck/7 Mini gels with EtBr, 3 Catamaran S-12, 1 Forceps, 1 40X TAE Running Buffer, 50 mL 5X Loading Buffer, 1 mL	Kit	\$105.00	
EL3300EB	PCR Check/ <i>T</i> Mini with EtBr, 8 & 12 wells/gel	10 gels	170.00	
EL3301EB	PCR Check/T Wide Mini S-2x13 with EtBr, 13 wells/gel	12 gels	226.70	
EL3302EB	PCR Check/T Wide Mini S-2x25 with EtBr, 25 wells/gel	12 gels	226.70	
EL3303EB	PCR Check/T Wide Mini S-4x13 with EtBr, 13 wells/gel	24 gels	226.70	
EL3304EB	PCR Check/7 Wide Mini S-4x25 with EtBr, 25 wells/gel	24 gels	226.70	
EL3305EB	PCR Check/7 Wide Mini S-2x104 with EtBr 104 wells/gel	12 gels	226.70	
EL3306EB	PCR Check/T Wide Mini S-2x104L with EtBr, 104 wells/gel	12 gels	226.70	
EL3307EB	PCR Check/T Wide Mini S-2x200 with EtBr, 200 wells/gel	12 gels	226.70	
Gels are also available in all formats without EtBr.				

* Each box contains: 1.0 mL sample loading buffer, Quality Control Certificate, short instructions, and a nylon string for removal of the plastic backing

ELCHROM Clearose® RNA

Gels for RNA and mRNA analysis

Clearose® RNA gels are ideal for RNA and mRNA (500 to 10000 nt) analysis, Northern blotting and the analysis of transcripts. These gels have excellent resolution, are RNAse free and can be used with non-toxic running buffer. Clearose® RNA gels have 500-10000 bp.

Product Number	Description*	Pkg Size	Price
EL3603	Clearose [®] RNA Starter Kit Includes: Clearose [®] RNA Mini gels, 5 Catamaran S-8, 1 Forceps, 1 40x TAE Running buffer, 50 mL 5x Loading buffer, 1 mL	Kit	\$148.20
EL3602	Clearose [®] RNA Mini 8 & 12 wells/gel	10 gels	149.10
EL3626	Clearose [®] RNA Wide Mini S-2x13, 13 wells/gel	12 gels	214.00

* Each box contains: Quality Control Certificate, short instructions, and a nylon string for removal of the plastic backing.





Labnet



Centrifuges and Mixers

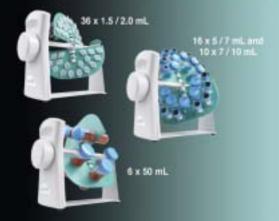
Spectrafuge[™] Mini Centrifuge

- · Compact, personal sized centrifuge
- Perfect for microfiltration and quick spin downs from the walls and caps of microcentrifuge tubes
- Supplied with rotors and adapters to accommodate 1.5 mL, 0.5 mL and 0.4mL tubes as well as 0.2 mL strips and individual tubes



MPS 1000[™] Mini Plate Spinner

- · Quickly spin down droplets and condensation
- · Use before and after thermal cycling to improve PCR yield
- · Accepts skirted, non-skirted and all standard PCR plates
- · Less than 1/4 the size of most plate centrifuges



Revolver 360° Sample Mixers

- 360° rotation
- · 0-90" mixing angle
- · Interchangeable rotisserie options for all common lab tubes
- · Independently adjustable rotisseries
- · Cold room and incubator compatible

If you are interested, please contact Mike in our Technical Support Department for details.

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Micronic Starter Packs

- · Convenient, cost effective way to set up a traceable sample storage system
- · Everything needed to store, locate and handle your precious samples
- · Includes reader, software, caps, racks, 2D coded tubes, sealer and decappers
- · Provides a quick and easy introduction to using coded sample tubes

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Micronic Starter Pack

MICRONIC STARTER PACKS

- Convenient, cost effective way to set up a traceable sample storage system
- Everything needed to store, locate and handle your precious samples •
- Includes reader, software, caps, racks, 2D coded tubes, sealer and decappers
- Provides a quick and easy introduction to using coded sample tubes

Product Number	Description	Pkg Size	Price
MSMP20104	1.40mL Tracker 2D Barcoded Tubes U-bottom Starter Pac with SampleScan 96 Includes: 1.40mL Tracker 2D Barcoded Tubes U-Bottom in Robo Rack-96 (2 Pierceable TPE Capcluster-96 Natural (2 x 10 capclusters) Manual Decapper-8 Manual Capmatsealer Tracker Table Model Three Rack Scanner		\$6,055.00
MSMP20204	1.14mLTracker 2D Barcoded Tubes U-bottom Starter Pack with Hand Held Scanner Includes: 1.14mL Tracker 2D Barcoded Tubes U-Bottom in 1D barcoded Ro Pierceable TPE Capcluster-96 Natural (2 x 10 capclusters) Manual Decapper-8 Manual Capmatsealer Hand Held Wireless 1D (2D barcode reader with USB connection)		4,385.60
MSMP20304	1.40mL Tracker 2D Barcoded Tubes U-bottom Starter Pac with SampleScan Mini Includes: 1.40mL Tracker 2D Barcoded Tubes U-bottom in 1D barcoded Ro Pierceable TPE Capcluster-96 Natural (2 x 10 capclusters) Manual Decapper-1 Manual Decapper-8 Manual Capmatsealer SampleScan Mini Barcode Reader	Kit	7,947.40 (20 racks)

Starter Packs are also available with Screw Cap Tubes and with 0.5 and 0.75 mL Tubes. Please contact our Technical Support Department for more information.

MICRONIC BARCODE READER

- Reads all 96 tubes in under 20 seconds
- Easy to install
- Versatile software generates a variety of file formats

Product Number	Description	Pkg Size	Price
MSMP85115	SampleScan 96 Three-Rack Barcode Reader	Each	\$3,827.50
MSMP85116	SampleScan 96 Single-Rack Barcode Reader	Each	3,653.20

MICRONIC SINGLE TUBE READER

- Provides rapid, single tube analysis
- Reads tube in under 0.5 seconds •
- Data can be exported to any program
- Robust and reliable
- In-line version available for integration within automated systems

Product Number	Description	Pkg Size	Price
MSMP85220	SampleScan Plus Single Tube Reader	Each	\$2,898.20

MICRONIC HAND HELD WIRELESS SCANNER WITH USB CONNECTION

- Bluetooth wireless connectivity, 33 foot working range
- Versatile Reads 1D linear, PDF417 and 2D data matrix bar codes
- Battery Long lasting, high capacity lithium ion battery provides 57,000 scans per charge
- Interfaces Keyboard wedge, USB, TTL level RS-232, wand emulation, TTL level serial wedge, and IBM 46XX
- · Light Weight Only 9 ounces

Product Number	Description	Pkg Size	Price
MSMP85120	Wireless Scanner with USB Connection	Each	\$2,085.10





Micronic SampleScan Plus Reader



Micronic Hand Held Wireless Scanner with USB Connection

1-888-593-5969

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- LABORATORY ESSENTIALS

MICRONIC PREMIUM TUBES

- Clean room manufactured from medical grade polypropylene solvent resistant, contaminant-free
- Ideal for use with robotic equipment
- · Available uncoded, with alphanumeric code or 2D coding system
- Codes enable sample integrity and traceability
- TrackerDM[™] features:

Industry standard – 10MIL open code format Error correction – partial damage of code will not effect readability Human readable code – allows tube identification without using a reader Versatile – ready integration with LIMS and databases, compatible with Matrix systems

- Tubes available in **polycarbonate** (PC), **polypropylene** (PP), **RoBo** or **LoBo** racks, all conforming to the SBS standard footprint
 - Polypropylene Rack open bottom allows quick freezing and thawing - can be manipulated by robotic equipment
 - RoBo Rack enclosed wall design allows grippers to access rack from any height
 - Sure-Shot[™] well design ensures tubes are positively guided into the correct well location, preventing stoppages
 - LoBo Rack low profile
- Higher carbon content of conductive racks causes static electricity to be discharged so dust is not attracted to the rack

Product Number	Description		Pkg Size	Price
TrackerDM [™] 2I	CODED TUBES			
MSMP52325	0.5 mL, V bottom	LoBo 96 place PP rack, Screw Cap Tubes	4 pkgs of 10	\$2,185.70
MSMP52325Z6	0.5 mL, V bottom	LoBo 96 place PP rack, Screw Cap Tubes, precapped	4 pkgs of 10	2,406.80
MSMP52027	0.75 mL, V bottom	Bulk	5 bags of 960	1,105.70
MSMP52020	0.75 mL, V bottom	LoBo 96 place PP rack	4 pkgs of 10	2,185.70
MSMP52310	0.75 mL, V bottom	Black Tubes in LoBo 96 place rack	4 pkgs of 10	2,406.80
MSMP52607	1.4 mL, U bottom	Bulk	4 bags of 960	1,105.70
MSMP52006	1.4 mL, U bottom	96 place PP rack	4 pkgs of 10	2,185.70
MSMP52011	1.4 mL, U bottom	RoBo 96 place PP rack	4 pkgs of 10	2,185.70
MSMP52019	1.4 mL, U bottom	96 place deep well refill tube holder	5 pkgs of 10	1,701.00
MSMP52309	1.4 mL, U bottom	Black Tubes in RoBo 96 place rack	4 pkgs of 10	2,406.80
MSMP52330Z6	1.4 mL, V bottom	RoBo 96 place PP rack, Screw Cap Tubes, precapped	2 pkgs of 10	954.00
MSMP52330	1.4 mL, V bottom	RoBo 96 place PP rack, Screw Cap Tubes	2 pkgs of 10	1,092.80

HELP

ADVICE



Traceable Sumpling Bolutions



Micronic TrackerDM[™] Data Matrix Coded Tubes

Need Assistance?

Please contact Mike in our Technical Support Department at 1-888-593-5969 or tech@biolynx.ca



SUPPORT



Micronic RoBo Rack with Glass Tubes



Micronic Pneumatic Capper

Product Number D	escription		Pkg Size	Price
ALPHANUMER	RIC CODED TUBES	· · · · · · · · · · · · · · · · · · ·		
MSMP42049	0.05 mL, V bottom	LoBo 96 place PP rack, Screw Cap Tubes	4 pkgs of 10	\$1,188.00
MSMP42013	0.65 mL, V bottom	LoBo 96 place PP rack	4 pkgs of 10	1,188.00
MSMP226RP MSMP22501 MSMP42001 MSMP42003 MSMP42064 MSMP42063	1.4 mL, U bottom 1.4 mL, U bottom 1.4 mL, U bottom 1.4 mL, U bottom 1.4 mL, V bottom 1.4 mL, V bottom 1.4 mL, V bottom	96 place deep well refill tube holder 96 place PC rack 96 place PP rack RoBo 96 place PP rack 96 place refill, Screw Cap Tubes RoBo 96 place PP rack, Screw Cap Tubes Robo 96 place, PP rack,	5 pkgs of 10 4 pkgs of 10 4 pkgs of 10 4 pkgs of 10 2 pkgs of 10 2 pkgs of 10 2 pkgs of 10	465.40 1,037.60 Inquire 1,188.00 186.40 594.00 693.00
101310174200320	1.4 mL, V bollom	Screw Cap Tubes, precapped	2 pkgs 01 10	093.00
NON-CODED T	UBES			
MSMP32040 MSMP32041	0.05 mL, V bottom 0.05 mL, V bottom	Bulk, Screw Cap Tubes LoBo 96 place PP rack, Screw Cap Tubes	5 bags of 960 4 pkgs of 10	\$243.00 1,049.10
MSMP32041Z6	0.05 mL, V bottom	LoBo 96 place PP rack, Screw Cap Tubes, precapped	4 pkgs of 10	632.60
MSMP32017 MSMP32008	0.75 mL, V bottom 0.75 mL, V bottom	Bulk LoBo 96 place PP rack	5 bags of 960 4 pkgs of 10	243.00 1,049.10
MSMP226RN MSMP22502 MSMP32022 MSMP42000 MSMP42002 MSMP32057 MSMP32062 MSMP32042	1.4 mL, U bottom 1.4 mL, V bottom 1.4 mL, V bottom	96 place deep well refill tube holder 96 place PC rack Bulk 96 place PP rack RoBo 96 place PP rack, Black Tubes Bulk, Screw Cap Tubes RoBo 96 place PP rack, Screw Cap Tubes	5 pkgs of 10 4 pkgs of 10 4 bags of 960 4 pkgs of 10 4 pkgs of 10 4 pkgs of 10 4 bags of 960 2 pkgs of 10	Inquire 1,049.10 1,152.00
	1.4 mL, V bottom	RoBo 96 place PP rack, Screw Cap Tubes, precapped	2 pkgs of 10	657.00
MSMP32003	2.5 mL, U bottom	96 place PP rack	4 pkgs of 6	Inquire
MSMP23805	7.5 mL, flat bottom	PE square tube with cap, non-sterile	5 pkgs of 100	135.00
EMPTY RACKS MSMP22504 MSMP51000 MSMP51001 MSMP51004	96 place empty PC 96 place empty PP RoBo 96 place PP r	rack with cover for 1.4 mL tubes rack with cover for 1.4 mL tubes ack with cover for 1.4 mL tubes Rack-96 with cover for 0.65 mL tubes	4 pkgs of 10 4 pkgs of 10 4 pkgs of 10 4 pkgs of 10 4 pkgs of 10	\$714.80 Inquire 668.60 668.60
ACCESSORIES	S			
MSMP34000	Extendable holder f	or vertical storage of racks in freezers	Each	\$69.40



Micronic Safesealer

MICRONIC CAP SEALERS

MICRONIC PREMIUM TUBES

- Manual Capmatsealer caps Micronic tubes with Micronic TPE/EVA Caps, Capclusters, Capbands, and Capmats
- Electric Capper caps both full and partially full racks of tubes and is compatible with the Micronic capping range, tubes and racks
- Robus, durable bench-top device

Product Number	Description	Pkg Size	Price
	Manual Capmat Sealer	Each	\$1,411.70
	Electric Capper	Each	4,822.80

130

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MICRONIC CAPS

Product

- Use of the new Capcluster permits all 96 caps to be applied simultaneously
- The new hydrophobic Capcluster is made of 2 components, the caps and a removable retaining film
- Each hydrophobic cap is multi-pierceable (up to 12 times) without a loss in seal integrity
 TPE caps have a high chemical resistance and a temperature range of -80°C to 80°C

Pkg

Number Description Size Price CAPCLUSTER MSMP53004 Blue, Pierceable TPE 240 \$1,603.30 MSMP53005 240 1,603.30 Green, Pierceable TPE MSMP53006 Grey, Pierceable TPE 240 1,603.30 MSMP53007 Pink, Pierceable TPE 240 1.603.30 Brown, Pierceable TPE MSMP53008 240 1.603.30 MSMP53009 Black, Pierceable TPE 240 1,603.30 MSMP53010 Yellow, Pierceable TPE 240 1.603.80 MSMP53001 Natural, Pierceable TPE 240 1,603.30 MSMP53036 White, Pierceable TPE 240 1.668.80 MSMP53038 Purple, Pierceable TEPE 240 1,668.80 MSMP53026 Natural, Split Cap, Pierceable TPE 240 1,734.40 MSMP53037 240 Multicolour Pack 1,661.10 (Natural, Blue, Green, Grey, Pink, Brown, Black and Yellow) CAPMAT MSMP53011 Blue, Pierceable TPE 240 \$1,342.30 MSMP53012 Green, Pierceable TPE 240 1,342.30 Grey, Pierceable TPE MSMP53013 240 1,342.30 MSMP53014 Pink, Pierceable TPE 240 1,342.30 MSMP53015 Brown, Pierceable TPE 240 1.342.30 Black, Pierceable TPE MSMP53016 240 1,342.30 MSMP53017 Yellow, Pierceable TPE 240 1,342.30 MSMP53000 Natural, Pierceable TPE 240 1,342.30 MSMP33000 EVA 240 817.70 **CAPBAND - 8** MSMP53018 240 Blue, Pierceable TPE \$1,571.10 MSMP53019 Green, Pierceable TPE 240 1,571.10 MSMP53020 Grey, Pierceable TPE 240 1.571.10 MSMP53021 Pink, Pierceable TPE 240 1,571.10 MSMP53022 Brown, Pierceable TPE 240 1,571.10 Black, Pierceable TPE MSMP53023 240 1.571.10 MSMP53024 Yellow, Pierceable TPE 240 1,571.10 MSMP53002 Natural. Pierceable TPE 240 1.571.10 MSMP53027 Natural, Split Cap, Pierceable TPE 240 1,734.40 MSMP227B1 EVA 24 pkgs of 120 948.80 MSMP82605 EVA, Break Apart 4 bags of 1000 1,843.70 SINGLE CAPS MSMP53003 Pierceable TPE, Bulk 24 bags of 960 \$1,145.60 SCREW CAPS MSMP53101 Screw Caps, White 5 bags of 960 \$1,542.80 MSMP53102 Screw Caps, Red 5 bags of 960 1.542.80 MSMP53103 Screw Caps, Blue 5 bags of 960 1,542.80 MSMP53105 Screw Caps, Green 5 bags of 960 1,542.80 Smaller package sizes may be available - please inquire.

MICRONIC DECAPPERS[™]

· Hand-held decappers allow the removal of caps in a hands-free method

Increases user safety as direct contact with caps is avoided

Automated Decapper[™] system simultaneously removes all 96 caps in under 10 seconds

Compatible with all Micronic racks and tubes

Product Number	Description	Pkg Size	Price
MSMP54000	Hand-held Single Cap Decapper	10	\$70.70
MSMP54001	Hand-held Eight Cap Decapper	10	83.60
MSMP35000	Automated Decapper [™]	Each	45,693.00
MSMP54004	Screw Cap Remover	10	29.60



Micronic CapCluster with Removable Retaining Film and Caps



Micronic Pierceable 96 Place CapCluster



Micronic Eight Cap Decapper



Micronic Automated Decapper



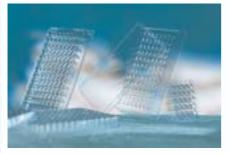
Greiner 96-Well Clear Polystyrene Microplates



Greiner 384-Well Black and White Polystyrene Microplates



Greiner Microplates



Greiner PCR Plates

GREINER MICROPLATES

- A wide variety of microplates available in virgin polystyrene or polypropylene resin with standard dimensions
- Numerous formats are available including clear, white and black plates with flat, round (U), conical (V) or C bottoms.
- RNase and DNase free, non-pyrogenic and free of DNA-polymerase inhibitors
- Custom bar-codes can be applied according to your specifications

Product Number	Colour	Bottom Style	Other	Pkg Size	Price
96-WELL F	POLYSTYRE	NE			
GR655101 GR655180 GR650101 GR651101 GR655075 GR655083 GR655076 GR655086	Clear Clear Clear White White Black Black	Flat Flat Round Conical Flat Flat Flat Flat	Chimney Style TC Treated, Sterile with Lid - - Chimney Style TC Treated, Sterile with Lid Chimney Style TC Treated, Sterile with Lid	100 60 100 100 40 32 40 32	\$71.00 191.80 66.90 64.80 87.70 64.80 84.30
96-WELL F	POLYPROPY	LENE			
GR655201 GR650201 GR651201 GR655209 GR650209 GR651209	Clear Clear Clear Black Black Black	Flat Round Conical Flat Round Conical	Chimney Style Chimney Style Chimney Style Chimney Style Chimney Style Chimney Style	100 100 100 100 100 100	\$167.10 167.10 183.80 173.60 184.90
384-WELL	POLYSTYRI	ENE			
GR781101 GR781182 GR781075 GR781080 GR781076 GR781086	Clear Clear White White Black Black	Flat Flat Flat Flat Flat Flat	- TC Treated, Sterile with Lid - TC Treated, Sterile with Lid - TC Treated, Sterile with Lid	100 32 40 32 40 32	\$311.80 125.30 169.10 178.20 160.10 178.20
384-WELL	POLYPROP	YLENE			
GR781201 GR781280 GR781209	Clear Clear Black	Flat Conical Flat	-	100 100 100	\$273.90 284.40 303.30
	L POLYSTYF				
GR783101 GR783075 GR783076	Clear White Black	Flat Flat Flat	LoBase LoBase LoBase	60 60 60	\$982.20 1,151.50 1,151.50

GREINER CLEAR POLYPROPYLENE PCR PLATES

- DNase RNase free, non-pyrogenic
- · Compatible with a wide variety of sealing options
- Greiner bar coding option available

Product Number	Description	Skirt Format	Well Volume (µL)	Pkg Size	Price
GR652201	96-well, clear	None	200	40	\$127.50
GR652270	96-well, clear	Full	250	40	141.20
GR652280	96-well, clear	Half	250	40	138.50
GR652290	96-well, clear	Half	200	40	138.50
GR785201	384-well, clear	Full	40	60	243.60
GR785290	384-well, clear	Full	25	60	243.60
GR785207	384-well, white	Full	25	60	287.00
GR785209	384-well, black	Full	25	60	287.00

GREINER Masterblock[®] DEEP WELL MICROPLATES

- Made of high quality, virgin polypropylene in a standard microplate footprint
- Offers superior chemical and temperature resistance
- Also available in a variety of colours and in sterile formats

Product Number	Colour	Bottom Style	Sterile	Well Volume	Pkg Size	Price
96-WELL P	OLYPROPY	LENE				
GR786201	Natural	Conical	No	0.75 mL	80	\$271.70
GR786261	Natural	Conical	Yes	0.5 mL	80	301.20
GR780201	Natural	Round	No	1.2 mL	50	196.40
GR780205	Green*	Round	No	1.2 mL	50	196.40
GR780210	Natural	Round	No	1.2 mL	50	181.70
GR780261	Natural	Round	Yes	1.2 mL	50	206.00
GR780270	Natural	Conical	No	2.4 mL	50	187.50
GR780271	Natural	Conical	Yes	2.4 mL	50	182.00
GR780275	Green*	Conical	Yes	2.4 mL	50	189.90
GR780285	Natural	Conical	No	2.4 mL	50	184.60



Greiner Masterblock® Deep Well Microplates

* Red, blue and yellow also available.

SEAHORSE LABWARE STORAGE PLATES AND RESERVOIRS

- Molded in Natural Polypropylene Chemical and heat resistant
- Industry Standard Dimensions Robotic friendly
- Bar-Coding and Irradiation Available Upon Request Minimum order
- Many Options Available Please contact Mike in Techical Support for a full listing

Product Number	Description	Pkg Size	Price
IMS30003	48 well, rectangle well, storage, 7.5 mL	30	\$262.10
IMS30004	48 well, rectangle well, storage, 5 mL	25	184.80
IMS30026	96 well, square well, 'V' Bottom, storage, 1.1 mL	25	90.60
IMS30033	384 well, square well, spherical bottom, storage, 0.035 mL	60	265.70
IMS30014	96 well, reservoir	25	163.10
IMS30018	96 well, low profile, reservoir	25	138.90
IMS30019	12 column, reservoir	25	163.10
IMS30021	384 well, reservoir	25	163.10
IMS30022	384 well, low profile reservoir	25	138.90
IMS30027	384 well, low profile with controls	25	138.90
IMS30035	24 column reservoir, low profile	25	138.90

Seahorse Labware 96-Well Storage Plate

SEAHORSE LABWARE FILTER BOTTOM PLATES

- Long and Short Drip Directors
- No-Cross Talk Guaranteed
- Variety of Filtration Media Please contact Mike in Technical Support for a full listing

Product Number	Description	Pkg Size	Price
IMF20011	96-well 400mL, Hydrophilic PVDF 0.45mm, Long Drip	25	\$404.60
IMF20059	96-well 2 mL, UHMW PE 25mm, Long Drip	25	591.80
IMF20062	96-well 2 mL, PES 0.45mm, Hydrophilic, Long Drip	25	616.00

SEAHORSE LABWARE UNIVERSAL LIDS AND PLATES SEALS

Product Number	Description	Pkg Size	Price
IMA50009	Universal lid, polystyrene, Clear	100	\$100.20
IMA50014	Universal lid, polypropylene, Clear	100	113.50
IMP40006	96 well, pierceable plate seal, 2 mL	100	335.80
IMP40008	96 well, bottom plate seal for 2 mL	100	335.80

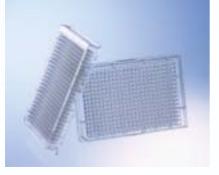


Seahorse Labware Filter Plates

www.biolynx.ca

MICROPLATES





GREINER STREPTAVIDIN COATED PLATES

- Low coating variance
- High biotin binding capacity
- Plates come without lids
- Convenient, ready-to-use
- Low streptavidin leachingPre-blocked with 0.3% BSA
- Pkg Size Product Plate Bottom Bottom Chimney Colour Number Colour Style Style **Price** 96-WELL \$833.80 GR655990 Clear Clear C-shaped Yes 40 GR655995 White White 40 C-shaped 833.80 Yes GR655996 Black µClear Flat Yes 40 898.10 GR655997 Black Black C-shaped 833.80 Yes 40 384-WELL GR781990 Clear Flat No 40 1,915.70 Clear White 40 GR781995 White Flat No 1,946.30 GR781996 Black µClear Flat No 40 2,015.40 GR781997 Black Black Flat No 40 1,946.30

GREINER COATED PLATES

- · Coated with extra-cellular matrix proteins (ECM) or synthetic polypeptides
- Sterile, RNase, DNase-free and Non Pyrogenic
- Plates come with lids
- Consistent coating for reproducible results
- Convenient, ready-to-use

Product Number	Coating	Plate Colour	Bottom Colour	Chimney Style	Pkg Size	Price
6-WELL						
GR657950 GR657930 GR657940	CollagenType-1 Poly L Lysine Poly D Lysine	Clear Clear Clear	Clear Clear Clear	Yes Yes Yes	50 50 50	\$376.00 372.40 376.00
24-WELL						
GR662950 GR662930 GR662940	CollagenType-1 Poly L Lysine Poly D Lysine	Clear Clear Clear	Clear Clear Clear	Yes Yes Yes	50 50 50	417.00 417.00 417.00
96-WELL						
GR655950 GR655956 GR655930 GR655940 GR655944 GR655945 GR655946 GR655947	CollagenType-1 CollagenType-1 Poly L Lysine Poly D Lysine Poly D Lysine Poly D Lysine Poly D Lysine Poly D Lysine	Clear Black Clear Clear White White Black Black	Clear Clear Clear Clear Clear White Clear Black	Yes Yes Yes Yes Yes Yes Yes	20 20 20 20 20 20 20 20 20	201.10 315.50 199.20 202.70 315.50 215.10 315.50 200.80
384-WELL						
GR781950 GR781940 GR781944 GR781945 GR781946 GR781947	CollagenType-1 Poly D Lysine Poly D Lysine Poly D Lysine Poly D Lysine Poly D Lysine	Clear Clear White White Black Black	Clear Clear Clear White Clear Black	No No No No No	20 20 50 20 20 20	321.70 273.60 513.40 323.10 362.90 323.10



Greiner also offers coated Flasks and Petri dishes for your cell culture needs. Please contact our Technical Support Department for more information.

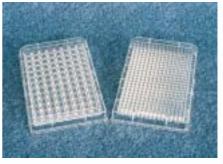


1-888-593-5969

GREINER UVStar[™] MICROPLA<u>TES</u>

- New and innovative proprietary resin offers an optical window down to 230 nm in a microplate with a standard footprint
- For the measurement of DNA at 260/280 nm
- Cost effective alternative to fragile quartz glass plates

Product Number	Colour	Bottom Style	Other	Pkg Size	Price
96-WELL					
GR655801	Clear	Flat	Chimney Style	40	\$308.00
384-WELL					
GR781801	Clear	Flat	-	40	\$630.30



Greiner UVStar[™] Microplates

GREINER µClear[®] 96-WELL THIN BOTTOM MICROPLATES

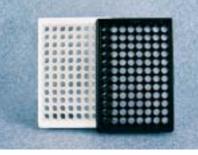
- Suggested for assays designed for luminescence and fluorescence detection systems when detection or imaging from bottom is desired
- Extended wavelength range down to 340 nm
- Bottoms are made out of an ultra-thin film (50-500 μm)
- RNase-and DNase free, non-pyrogenic
- Industry standard dimensions

Product Number	Colour	Bottom Style	Other	Pkg Size	Price
GR655088	White	Flat	TC Treated, Sterile	40	\$189.50
GR655094	White	Flat	High Binding	40	201.30
GR655095	White	Flat	Medium Binding	40	196.60
GR655087	Black	Flat	TC Treated, Sterile	40	206.00
GR655097	Black	Flat	High Binding	40	196.40
GR655096	Black	Flat	Medium Binding	40	192.20

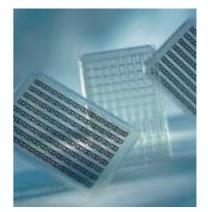
GREINER POLYSTYRENE PROTEIN CRYSTALLIZATION MICROPLATES

- CrystalQuick[™] sitting drop plates feature 96 individual buffer wells with each buffer well adjacent to 1 or 3 crystallization wells. Three crystallization wells enables up to 288 crystallization options per plate
- Sitting drop TC treated plates may enable better liquid dispersion
- The CrystalDrop[™] hanging drop lid features 192 indentations ideal for hanging drop vapor diffusion. Light-tight masks to allow improved detection of crystal growth, while grooves around each of the 96 locations are used for air-tight sealing, either with silicone grease or other adhesives. Can be used in conjunction with sitting drop plates for simultaneous hanging and sitting drop vapor diffusion screens.
- The Combo Plate[™] is a universal 24-well plate that can be used for both hanging drop and sitting drop applications

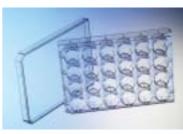
Product Number	Colour	Method	Well Density	Pkg Size	Price
GR609101	Clear	CrystalQuick [™] Sitting Drop square round well design	96/288	40	\$471.40
GR609120	Clear	CrystalQuick [™] Sitting Drop round well design	96/288	40	471.40
GR609171	Clear	CrystalQuick [™] Sitting Drop square round well design	96	80	870.80
GR662150	Clear	Combo Plate [™] Protein Crystallization Plate with Lid	24	24	73.60
GR609150	Clear	CrystalDrop [™] Hanging Drop Lid round well design	192	200	1,915.70



Greiner µClear[®] 96-Well Thin Bottom Microplates



Greiner Protein Crystallization Microplates



Greiner Combo Plate™

MATS AND SEALERS



Seahorse Sealers



Greiner Seals

SEAHORSE LABWARE SEALERS

· Chemically and heat resistant, autoclaveable, sealing integrity up to -20°C

Product Number	Description	Compatibility	Pierceable	Pkg Size	Price
IMP40002 IMP40003 IMP40004 IMP40005 IMP40006 IMP40007 IMP40008 IMP40009	48 Well Seal 48 Well Seal 96 Well Seal Strip 96 Well Seal Strip 96 Well Seal Strip 96 Well Betom Seal 24 Well Seal Strip	7.5 and 5 mL Storage Plate 7.5 and 5 mL Storage Plate 4 mL Storage Plate 4 mL Storage Plate 2 mL Storage Plate 2 mL Storage Plate 2 mL Fritted Filter Plate 10 mL Storage Plate	Yes No Yes No No Yes Yes	100 100 600 100 100 100 100	\$335.80 335.80 468.60 468.60 335.80 335.80 335.80 335.80

GREINER MICROPLATE SEALER FAMILY

- Withstand temperatures from -70°C (cryo-storage) to +110°C (thermal cycling)
- Compatible with aqueous solutions and organic solvents
- RNase- and DNase-free, non-pyrogenic

Product Number	Description	Colour	Pkg Size	Price
	EASYseal [™] , Classic	Clear	100	\$42.90
GR676070	VIEWseal [™] , Advanced	Clear	100	213.70
GR676090	SILVERseal [™] , Pierce-able	Silver	100	79.10

MICRONIC CAPCLUSTERS

- · Capcluster is made of 2 components, the caps and a removable retaining film
- · Each hydrophobic cap is multi-pierceable (up to 12 times) without a loss in seal integrity
- TPE caps have a high chemical resistance and a temperature range of -80°C to 80°C

Product Number	Description	Colour	Pkg Size	Price
MSMP53004P	Pierceable TPE	Blue	10	\$70.50
MSMP53005P	Pierceable TPE	Green	10	70.50
MSMP53006P	Pierceable TPE	Grey	10	70.50
MSMP53007P	Pierceable TPE	Pink	10	70.50
MSMP53008P	Pierceable TPE	Brown	10	70.50
MSMP53009P	Pierceable TPE	Black	10	70.50
MSMP53010P	Pierceable TPE	Yellow	10	70.50
MSMP53001P	Pierceable TPE	Natural	10	70.50
MSMP53026P	Split Cap, Pierceable TPE	Natural	10	76.30

SUN MicroMat[™] AND MicroMat[™] CLR MICROPLATE MAT

- Autoclavable, Resealable
- MicroMat[™] features a thick layer of Teflon which provides an inert seal
- MicroMat[™] CLR is pure silicone giving the mat excellent flexibility
- MicroMat[™] CLR compatible with Greiner[™], Porvair[™], Matrix[™], Whatman Polyfiltronics[™], NUNC[™], Costar[®], Simport[™], MJ Research[™], Dynex[™] and Varian[™].



Micronic CapClusters

Sun MicroMat[™]

		Comp	atible 96-We	II Plate		
Product Number	Description	Standard	1.2 mL Deep Well	2.4 mL Deep Well	Pkg Size	Price
	MicroMat [™] , round well MicroMat [™] , round well	•	•		2 10	\$44.10 220.70
	MicroMat [™] II, round well MicroMat [™] II, round well	•	•		2 10	44.10 220.70
	MicroMat [™] CLR, round well MicroMat [™] CLR, round well, Pre-Slit	•	•		10 10	103.90 129.90
	MicroMat [™] CLR, square well MicroMat [™] CLR, square well Pre-Slit			•	2 10	32.40 155.80



CENTRIFUGE TUBES

GREINER BIO-ONE LIGHT PROTECTION TUBES

- Polypropylene tubes display high thermal, mechanical and chemical resistance; they are recommended for the storage of chemical and biological samples
- Conical bottomed tubes.
- Blue screw cap with blue graduation and white writing area •
- Light impermeable; suitable for light-sensitive materials and reactions
- Free of detectable DNase, RNase, human DNA, Non-Pyrogenic and non-cytotoxic
- Sterile
- Very good mechanical, thermal and chemical stability •

Product Number	Description	Pkg Size	Price
GR188283	Centrifuge Tube, 15mL, 17x120mm, Sterile, PPN, BLU Screw Cap, CON (V) BOT, Light Protection Tube, w/Grads, ID Field	500	\$132.40
GR188280	Centrifuge Tube, 15mL, 17x120mm, Sterile, PPN, BLU Screw Cap, CON (V) BOT, Light Protection Tube, w/Grads, ID Field	1000	233.70
GR227280	Centrifuge Tube, 50mL, 30x115mm, Sterile, PPN, CON (V) BOT, BLU Screw Cap, Light Protection Tube, w/Grads, ID Field	500	179.00
GR227283	Centrifuge Tube, 50mL, 30x115mm, Sterile, PPN, CON (V) BOT, BLU Screw Cap, Light Protection Tube, w/Grads, ID Field	300	116.20

GREINER CENTRIFUGE TUBES

- Superior chemical resistance and thermal characteristics .
- RNase-free, DNase-free and non-pyrogenic
- Microcentrifuge tubes are manufactured from highly transparent, inert polypropylene resin
- 15 mL and 50 mL centrifuge tubes are made of ClearChoice[™] polypropylene which offers excellent optical clarity
- · All microcentrifuges are autoclavable
- All 1.5 mL tubes are graduated

Product

- Microcentrifuge tubes can withstand centrifugation forces up to 18 000g •
- 15 mL tubes can withstand centrifugation forces up to 3 500g (non-supported rotor) or 113 000g ٠ (supported rotor)
- 50 mL tubes can withstand centrifugation forces up to 3 200g (non-supported rotor) or 9 500g (supported rotor)



Greiner Light Protection Tubes



Greiner Microcentrifuge Tubes

Number	Dimensions	ensions Description		Bottom	Size	Price					
MICROCENTRIFUGE NON-STERILE											
GR616201 GR616273 GR616274 GR616275 GR616276 GR616281 GR618201 GR623201 GR667201 GR742270	- - - - - - - - - -	 1.5 mL PP (Natural) 1.5 mL PP (Red) 1.5 mL PP (Blue) 1.5 mL PP (Green) 1.5 mL PP (Yellow) 1.5 mL PP (Assorted) 1.5 mL PP (Natural) 2.2 mL PP (Natural) 0.5 mL PP (Natural) 0.5 mL PP (Blue) 	Hinged Hinged Hinged Hinged Hinged No cap Hinged Hinged Hinged	Conical Conical Conical Conical Conical Conical Conical Conical Conical Conical	4000 4000 4000 4000 4000 3000 4000 10000 15000	\$98.10 100.30 100.30 100.30 94.10 72.70 201.30 365.60 386.30					
15 mL STE	RILE										
GR188261 GR188271 GR188281 GR188285	17 x 120 mm 17 x 120 mm 17 x 120 mm 17 x 120 mm 17 x 120 mm	PP tubes, racked PP tubes PP tubes, racked PP tubes	Blue, Screw Blue, Screw White, Screw White, Screw	Conical Conical Conical Conical	500 1000 500 700	\$91.40 158.40 91.30 110.30					
50 mL STE	RILE										
GR210261 GR210270 GR227261 GR227270 GR227285 GR227281	30 x 115 mm 30 x 115 mm	PP tubes PP tubes, racked PP tubes PP tubes, racked PP tubes PP tubes, racked	Blue, Screw Blue, Screw Blue, Screw Blue, Screw White, Screw White, Screw	Skirted Skirted Conical Conical Conical Conical	450 300 500 300 500 300	\$116.40 100.00 118.70 88.30 118.60 97.90					

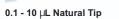




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Pkg



0.1 - 10 µL Natural, Filter Tip

0.5 - 10 µL Natural Tip

0.5 - 10 µL Natural, Filter Tip

1 - 200 µL Natural Tip

1 - 200 µL Yellow Tip

1 - 200 µL Natural, Bevelled Tip

1 - 200 μL Yellow, Bevelled Tip

1 - 200 µL Yellow, Bevelled, Graduated Tip

1 - 200 µL Natural, Filter Tip

1 - 300 μL Natural, Graduated Tip

101 - 1000 µL Natural, Graduated Tip

101 - 1000 µL Blue, Graduated Tip

101 - 1000 µL Natural, Filter Tip

101 - 1250 µL Natural Tip

USA SCIENTIFIC TipOne® PIPETTE TIPS

- Tips fit most popular pipettes
- Gentle pressure is all that is needed to form a proper seal
- Smooth inner surface reduces sample retention on the tip walls
- Uniform, burr-free tip orifice prevents sample hold up
- RNase, DNase, DNA free and non-pyrogenic
- Available in a variety of convenient packaging options
- Racks are hinged and accept reload wafers
- Autoclavable
- Filter tips feature a hydrophobic filter made of ultra high-density polyethylene
- Filter barrier protects pipettes and samples from contamination
- Filter tips allow complete sample recovery that is free of particulates or additives
- Each hinged rack of filter tips is individually sealed in plastic and has a tear strip for easy opening without sharp instruments
- Starter systems include: 1 case of 10 racks and 2 packs of 10 reloads each

Product Number	Colour	Sterility	Style	Format	Pkg Size	Price
0.1 – 10 µL [•]	TipOne®					
US11113000	Natural	-	-	Bulk	1000 tips/bag	\$24.00
US11113800	Natural	-	-	Rack	96 tips/rack 10 racks/case	47.30
US11113810	Natural	Sterile	-	Rack	96 tips/rack 10 racks/case	58.60
US11113700	Natural	-	-	Reload Wafer	96 tips/wafer 10 wafers/case	34.50
US11213810	Natural	Sterile	Filter	Rack	96 tips/rack 10 racks/case	81.90
US11113500	Natural	-	-	-	Starter System	107.30
0.5 – 10 µL	TipOne®					
US11114000	Natural	-	-	Bulk	1000 tips/bag	\$31.70
US11114800	Natural	-	-	Rack	96 tips/rack 10 racks/case	44.00
US11114810	Natural	Sterile	-	Rack	96 tips/rack 10 racks/case	61.60
US11214810	Natural	Sterile	Filter	Rack	96 tips/rack 10 racks/case	89.00
1 – 200 µL 1	®npOne					
US11110000	Natural	-	-	Bulk	1000 tips/bag	\$21.40
US11110800	Natural	-	-	Rack	96 tips/rack 10 racks/case	43.40
US11110810	Natural	Sterile	-	Rack	96 tips/rack 10 racks/case	48.40
US11110700	Natural	-	-	Reload Wafer	96 tips/wafer 10 wafers/case	30.00
US11110500	Natural	-	-	-	Starter System	94.20
US11110006	Yellow	-	-	Bulk	1000 tips/bag	20.80
US11110806	Yellow	-	-	Rack	96 tips/rack 10 racks/case	43.60
US11110816	Yellow	Sterile	-	Rack	96 tips/rack 10 racks/case	48.50
US11110706	Yellow	-	-	Reload Wafer	96 tips/wafer 10 wafers/case	29.60
US11110506	Yellow	-	-	-	Starter System	100.90
US11111000	Natural	-	Bevelled	Bulk	1000 tips/bag	22.10
US11111800	Natural	-	Bevelled	Rack	96 tips/rack 10 racks/case	44.30
US11111810	Natural	Sterile	Bevelled	Rack	96 tips/rack 10 racks/case	53.30
US11111700	Natural	-	Bevelled	Reload Wafer	96 tips/wafer 10 wafers/case	29.50
US11111500	Natural	-	Bevelled	-	Starter System	101.20
US11111006	Yellow	-	Bevelled	Bulk	1000 tips/bag	19.70
US11111806	Yellow	-	Bevelled	Rack	96 tips/rack 10 racks/case	46.90

PIPETTE TIPS

USA SCIENTIFIC TipOne® PIPETTE TIPS

Product					Pka	
Product Number	Colour	Sterility	Style	Format	Pkg Size	Price
1 – 200 µL 1	ГірОne® (cont'd)				
US11111816	Yellow	Sterile	Bevelled	Rack	96 tips/rack 10 racks/case	\$53.60
US11111706	Yellow	-	Bevelled	Reload Wafer	96 tips/wafer 10 wafers/case	31.10
US11111506	Yellow	-	Bevelled	-	Starter System	115.80
US11101000	Natural	-	Bevelled, Graduated	Bulk	1000 tips/bag	22.40
US11101800	Natural	-	Bevelled, Graduated	Rack	96 tips/rack 10 racks/case	56.30
US11101810	Natural	Sterile	Bevelled, Graduated	Rack	96 tips/rack 10 racks/case	52.50
US11101700	Natural	-	Bevelled, Graduated	Reload Wafer	96 tips/wafer 10 wafers/case	42.40
US11101500	Natural	-	Bevelled, Graduated	-	Starter System	117.70
US11101006	Yellow	-	Bevelled, Graduated	Bulk	1000 tips/bag	22.70
US11101806	Yellow	-	Bevelled, Graduated	Rack	96 tips/rack 10 racks/case	58.20
US11101816	Yellow	Sterile	Bevelled, Graduated	Rack	96 tips/rack 10 racks/case	59.50
US11208810	Natural	Sterile	Filter, Graduated	Rack	96 tips/rack 10 racks/case	88.50
1 – 300 µL 1	FipOne ®					
US11108000	Natural	-	Graduated	Bulk	1000 tips/bag	\$24.60
US11108800	Natural	-	Graduated	Rack	96 tips/rack 10 racks/case	50.10
US11108810	Natural	Sterile	Graduated	Rack	96 tips/rack 10 racks/case	56.80
US11108700	Natural	-	Graduated	Reload Wafer	96 tips/wafer 10 wafers/case	40.10
US11108500	Natural	-	-	-	Starter System	117.60
101 – 1000	μ L TipOn	e®				
US11112020	Natural	-	Graduated	Bulk	1000 tips/bag	\$27.20
US11112820	Natural	-	Graduated	Rack	96 tips/rack 10 racks/case	65.30
US11112830	Natural	Sterile	Graduated	Rack	96 tips/rack 10 racks/case	68.00
US11267810	Natural	Sterile	Filter	Rack	96 tips/rack 10 racks/case	107.80
US11112720	Natural	-	Graduated	Reload Wafer	96 tips/wafer 10 wafers/case	44.70
US11112520	Natural	-	Graduated	-	Starter System	139.10
US11112021	Blue	-	Graduated	Bulk	1000 tips/bag	25.50
US11112821	Blue	- Otorilo	Graduated	Rack	96 tips/rack 10 racks/case	60.10
US11112831 US11112721	Blue	Sterile	Graduated	Rack Reload Wafer	96 tips/rack 10 racks/case	68.90
US11112721	Blue Blue		Graduated Graduated		96 tips/wafer 10 wafers/case	43.60
		- ®	Graduated		Starter System	132.50
101 – 1250		e ~		Dull	1000 11 11	000.00
US11122000 US11122800	Natural Natural	-	-	Bulk Rack	1000 tips/bag 96 tips/rack	\$26.00 65.60
US11122810	Natural	Sterile	-	Rack	10 rácks/case 96 tips/rack 10 racks/case	75.30
US11122700	Natural	-	-	Reload Wafer	96 tips/wafer 10 wafers/case	45.30
US11122500	Natural	-	-	-	Starter System	135.30





USA Scientific TipOne® Bulk Bag



USA Scientific TipOne® Rack



USA Scientific TipOne® Reload Wafers

www.biolynx.ca



Greiner Tissue Culture Multi-Well Plates

GREINER CELLSTAR® TISSUE CULTURE MULTI-WELL PLATES

- Available TC treated for culture of anchorage dependent cells or untreated for suspension cell culture applications
- Composed of optically clear, virgin polystyrene, sterile and non-pyrogenic
- Chimney style wells and low evaporation lids with condensation rings reduce risk of cross contamination

Product Number	Description	Pkg Size	Price
GR657160	TC treated, flat bottom, 6-well plate with lid	100	\$103.90
GR657185	Untreated, flat bottom, 6-well plate with lid	100	139.30
GR665102	Untreated, flat bottom, 12-well plate with lid	100	204.80
GR665180	TC treated, flat bottom, 12-well plate with lid	100	123.40
GR662102	Untreated, flat bottom, 24-well plate with lid	100	176.20
GR662160	TC treated, flat bottom, 24-well plate with lid	100	106.10
GR677102	Untreated, flat bottom, 48-well plate with lid	100	161.80
GR677180	TC treated, flat bottom, 48-well plate with lid	100	123.40
GR655185	Untreated, flat bottom, 96-well plate with lid	100	135.70
GR655180	TC treated, flat bottom, 96-well plate with lid	100	191.80

GREINER ThinCert[™] TISSUE CULTURE INSERTS FOR MULTI-WELL PLATES

- Offer improved cell adhesion
- Consist of a sealed PET capillary pore membrane housed in highly transparent polystyrene
- Self lift geometry and eccentric wall positioning simplify pipetting
 - Notches at the upper edge allow optimized gas exchange
- Individual, sterile packaging, multi-well plates included (*4 plates or **2 plates)

Product Number	Description	Pore Size and Density	Pkg Size	Price
GR657641	6-well, transparent insert	0.4 µm, 2 x 10 ⁶ cm ²	24 single inserts*	\$95.00
GR657610	6-well, transparent insert	1.0 µm, 2 x 10 ⁶ cm ²	24 single inserts*	95.00
GR657630	6-well, transparent insert	3.0 µm, 0.6 x 10 ⁶ cm ²	24 single inserts*	95.00
GR657631	6-well, translucent insert	3.0 µm, 2 x 10 ⁶ cm ²	24 single inserts*	95.00
GR657638	6-well, translucent insert	8.0 µm, 0.15 x 10 ⁶ x cm ²	24 single inserts*	95.00
GR665641	12-well, transparent insert	0.4 µm, 2 x 10 ⁶ cm ²	48 single inserts*	154.70
GR665610	12-well, transparent insert	1.0 µm, 2 x 10 ⁶ cm ²	48 single inserts*	154.70
GR665630	12-well, transparent insert	3.0 µm, 0.6 x 10 ⁶ cm ²	48 single inserts*	154.70
GR665631	12-well, translucent insert	3.0 µm, 2 x 10 ⁶ cm ²	48 single inserts*	154.70
GR665638	12-well, translucent insert	8.0 μm, 0.15 x 10 ⁶ cm ²	48 single inserts*	154.70
GR662640	24-well, translucent insert	0.4 µm, 1 x 10 ⁸ cm ²	48 single inserts**	132.10
GR662610	24-well, transparent insert	1.0 μm, 2 x 10 ⁶ cm ²	48 single inserts**	132.10
GR662630	24-well, transparent insert	3.0 µm, 0.6 x 10 ⁶ cm ²	48 single inserts**	132.10
GR662631	24-well, translucent insert	3.0 µm, 2 x 10 ⁶ cm ²	48 single inserts**	132.10
GR662638	24-well, translucent insert	8.0 µm, 0.15 x 10 ⁶ cm ²	48 single inserts**	128.20

GREINER Bio-One CELLview[™]CELL CULTURE DISH WITH GLASS BOTTOM

The specific design with the embedded glass bottom guarantees a single-plane, flat bottom with a consistent working distance, maximal planarity and optimal thermal conductivity in heated platforms avoiding thermal variations.

- Combines the convenience of a standard 35 mm disposable plastic cell culture dish with the optical quality of glass
- Provides superior high-resolution microscopic images of in-vitro cultures
- High transparent achromatic borosilicate glass; hydrolytic class 1 (DIN-ISO 719)
- Maximal spectral transmission; no auto fluorescence; no depolarization of light
 - Available with specific surface treatments increasing the attachment of adherent cells
- Broad range of multiple microscopic applications
- · Available as one compartment or a subdivided version with four individual compartments

Product Number	Description	Pkg Size	Price
GR627861	CELLview [™] cell culture dish, one compartment, sterile	40	\$206.20
GR627860	CELLview [™] cell culture dish, one compartment, TC-treated, sterile	40	212.00
GR627 871	CELLview [™] cell culture dish, four compartments, sterile	40	213.60
GR627 870	CELLview [™] cell culture dish, four compartments, TC-treated, sterile	40	217.20



Greiner ThinCert[™] in Multiwell Plate



Greiner CELLview[™]Culture Dishes

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GREINER CellStar[™] STERILE TISSUE CULTURE FLASKS

- Tissue culture treated to ensure excellent cell adhesion and high yields
- · Wide neck design to allow easy access for pipettes and cell scrapers
- Each flask is individually leak-tested, batch coded, graduated and stackable
- Filter caps feature a 0.2 µm hydrophobic membrane ideal for working with potentially infectious material
- Filter cap flasks provide excellent gas exchange and extended media life by stabilizing the pH

Product Number	Surface Area	Neck Style	Treatment	Other	Pkg Size	Price
50 mL						
GR690160 GR690175	25 cm ² 25 cm ²	Canted Canted	Tissue Culture Tissue Culture	— Filter Cap	200 200	\$146.20 250.70
250 mL						
GR658170 GR658175	75 cm ² 75 cm ²	Canted Canted	Tissue Culture Tissue Culture	— Filter Cap	120 120	\$156.60 238.10
650 mL						
GR661160 GR661175	182 cm ² 182 cm ²	Canted Canted	Tissue Culture Tissue Culture	Hi-Profile Filter Cap, Hi-Profile	40 40	\$104.40 142.00



Greiner Tissue Culture Flasks

GREINER CellStar[™] STERILE SUSPENSION CULTURE FLASKS

Offer the same features of the CellStar[™] Tissue Culture Flasks, but are not tissue culture treated
 Ideal for non-monolayer forming cell lines

Product Number	Neck Style	Other	Pkg Size	Price
50 mL				
GR690190 GR690195	Canted Canted	— Filter Cap	200 200	\$112.70 213.10
250 mL				
GR658190 GR658195	Canted Canted	— Filter Cap	120 120	\$150.30 188.00
650 mL				
GR661190 GR661195	Canted Canted	Hi-Profile Filter Cap, Hi-Profile	40 40	\$101.90 137.80



Greiner Suspension Culture Flasks

GREINER VENTED CellStar[™] STERILE PETRI DISHES

- Tissue culture treated for optimal cell attachment and proliferation RNase and DNase free, non-pyrogenic
- Virgin polystyrene offers distortion-free optical clarity
- These petri dishes are easily stackable and offer uniform gas exchange and reduced condensation

Product Number	Dimensions	Treatment	Other	Pkg Size	Price
8.7 cm ²					
GR627160 GR627170	35 x 10 mm 35 x 10 mm	Tissue Culture Tissue Culture	- 4 inner rings	740 500	\$221.40 313.00
58 cm ²					
GR633171 GR664160	94 x 16 mm 100 x 20 mm	Tissue Culture Tissue Culture	-	480 360	\$214.40 210.90
141 cm ²					
GR639160	145 x 20 mm	Tissue Culture	-	120	\$155.80



Greiner Petri Dishes

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GREINER BIO-ONE ADVANCED TC[™]

An innovative development for the cultivation of fastidious cells

A novel polymer modification changes the surface in such a way to increase cellular primary and long-term adhesion and positively influence celldependant features and functions.

Enhanced cell attachment and higher proliferation rates facilitate rapid cell expansion even under restricted growth conditions. Likewise cultivation of sensitive cells is improved as well as transfected cells exhibit higher transgene activity on Advanced TC[™] surfaces. Due to the reproducibility of the chemical modification of the plastic material maximal product quality can be guaranteed. Moreover transport and storage at room temperature simplify handling.

Major Applications:

- Cultivation of fastidious and sensitive cells
- · Usage of serum-reduced or serum-free media
- Differentiation of semi-adherent cells
- Transfection
- Transduction
- Automation / High-throughput analysis

Features:

LABORATORY ESSENTIALS

- Optimized cell adherence
- *In vivo* like morphology
- · Homogenous cell growth
- Increased cell yield
- Higher transgene activity
- Improved assay consistency
- Storage at room temperature
- 2 year shelf life



Product Number	Description	Pkg Size Bag/Case	Price
MICROPLATES			
GR655980 GR655982 GR655983 GR655986 GR675983 GR675986 GR781983 GR781986 GR788983 GR788986	96 Well, F-bottom/chimney well, with lid, transparent, Advanced TC [™] , sterile 96 Well, F-bottom/chimney well, with lid, transparent, Advanced TC [™] , sterile 96 Well, F-bottom/chimney well, with lid, µClear [®] , white, Advanced TC [™] , sterile 96 Well, F-bottom/chimney well, with lid, µClear [®] , black, Advanced TC [™] , sterile 96 Well, Half Area, with lid, white, Advanced TC [™] , sterile 96 Well, Half Area, with lid, black, Advanced TC [™] , sterile 384 Well, F-bottom, µClear [®] , white, with lid, Advanced TC [™] , sterile 384 Well, F-bottom, µClear [®] , black, with lid, Advanced TC [™] , sterile 384 Well, Small Volume [™] , µClear [®] , white, LoBase, with lid, Advanced TC [™] , sterile 384 Well, Small Volume [™] , µClear [®] , black, LoBase, with lid, Advanced TC [™] , sterile	1/100 10/160 8/32 8/32 8/32 8/32 8/32 8/32 15/60 15/60	\$525.70 757.00 283.90 315.40 369.00 416.40 462.60 529.90 529.90
MULTIWELL PL	ATES		
GR657960 GR665980 GR662960 GR677980	 6 Well Plate, with lid, Advanced TC[™], sterile 12 Well Plate, with lid, Advanced TC[™], sterile 24 Well Plate, with lid, Advanced TC[™], sterile 48 Well Plate, with lid, Advanced TC[™], sterile 	1/100 1/100 1/100 1/100	\$325.90 331.20 399.50 397.40
CELL CULTURE	DISHES		
GR627960 GR628960 GR633971 GR664960	Cell Culture Dish, Ø 35 x 10 mm, Advanced TC ^{T#} , sterile Cell Culture Dish, Ø 60 x 15 mm, Advanced TC ^{T#} , sterile Cell Culture Dish, Ø 94 x 16 mm, Advanced TC ^{T#} , sterile Cell Culture Dish, Ø 100 x 20 mm, Advanced TC ^{T#} , sterile	10/740 10/600 10/480 15/360	\$585.10 545.10 662.40 678.20

... More Advanced TC products to come !

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MICROBIOLOGY STAINS AND SLIDES

SDL MYCOPERM-BLUE & MYCOPERM-RED

A unique permanent mycology stain and mounting fluid with lactophenol cotton blue or acid fuchsin

- Novel stain contains plasticizers which help in making a durable long-life preparation
- Allows you to keep better records by retaining mycology preparations indefinitely



Product Number	Description	Pkg Size	Price
DL753	MycoPerm-BLUE	12 mL	\$54.40
DL752	MycoPerm-RED	12 mL	54.40

SDL STAINQUICK TRICHROME

- Rapid staining procedure giving excellent results in as little as 2 minutes
- Maintains a constant temperature of the stain, with stain penetrating organism in less than a minute



 Characteristic morphology of protozoa is readily seen

Product Number	Description	Pkg Size	Price
DL795	StainQuick for Trichrome Staining Kit Includes: StainQuick Unit, 250 mL stain and 250 mL decolorizer	Kit	\$312.70

SDL Acri-Fluor[™]

Rapid detection method for Mycobacteria, Cryptosporidia, Isospora, Nocardia and Cyclospora







Nocardia

- · Economical, non-antibody fluorescent technique
- Identification of acid fast organisms in tissue and smears
- Rapid and specific
- Standard FITC filter
- Less than 20 minutes to perform
- One kit enables you to do hundreds of assays

Product Number	Description	Pkg Size	Price
DL384	Acri-Fluor [™] Stain Includes: 125 mL of Acri-Fluor [™] 125 mL of Decolorizer	Kit	\$81.60

SDL FUNGI-TAPE

An efficient way of performing slide mounts of fungi from primary cultures

The adhesive tape is pliable enough for you to make a tape loop and then sample your culture. This product is fully compatible with MycoPerm to create a long lasting coverslip. Each roll covers approximately 360 coverslips.

Product Number	Description	Pkg Size	Price
DL745	Fungi-Tape	1 roll	\$45.30

SDL SHRINK SEALS

- Colourless transparent cellulose bands for sealing petri dishes, test tubes and microtiter plates
- Ideal for fungus cultures and sensitivity plates for TB
- Ideal for sealing plates that are incubating antibiotic and antibody studies, hybridomas and immunological assays
- Seal dries rapidly without heating

Product Number	Description	Pkg Size	Price
DL261	Shrink Seals for Petri Dishes, 92 mm x 25 mm	400	\$128.40
DL259	Stacking Blocks	18	32.50

SDL PLAIN & FROSTED MICROSCOPE SLIDES

- Precleaned frosted or plain microscope
- slides offered at an unbeatable price • Measure 1" x 3"
- Come in cases of 10 gross



Product Number	Description	Pkg Size	Price
DL045	Plain Blank Slides	1,440	\$226.60
DL050	Frosted Blank Slides	1,440	226.60

SDL CONTROL SLIDES

- Ideal controls and teaching aids
- A wide variety of control slides are available
 Please inquire

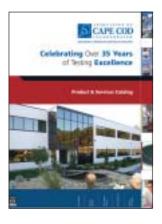




Product Number	Description	Pkg Size	Price
DL350	Acid Fast Control	10 slides	\$35.50
DL351	Acid Fast Control	50 slides	141.20
DL358	Acid Fast Tissue	10 slides	56.70
DL370	Cryptosporidium	10 slides	58.20
DL360	Gram Stain	10 slides	35.50
DL361	Gram Control	50 slides	141.20
DL431	Iron	10 slides	62.70
DL378	Isospora Belli	10 slides	75.50
DL369	Microsporidia	10 slides	58.20
DL8905	M. tuberculosis (Acid Fast)	5 slides	83.10
DL354	Protozoa	10 slides	40.00

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The following catalogues are available from ^{MJS} BioLynx Inc. Please contact our Customer Service Team to request your copy.



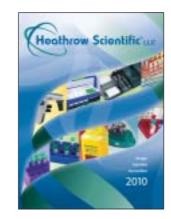






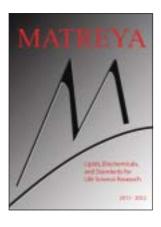


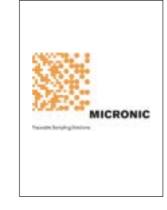






















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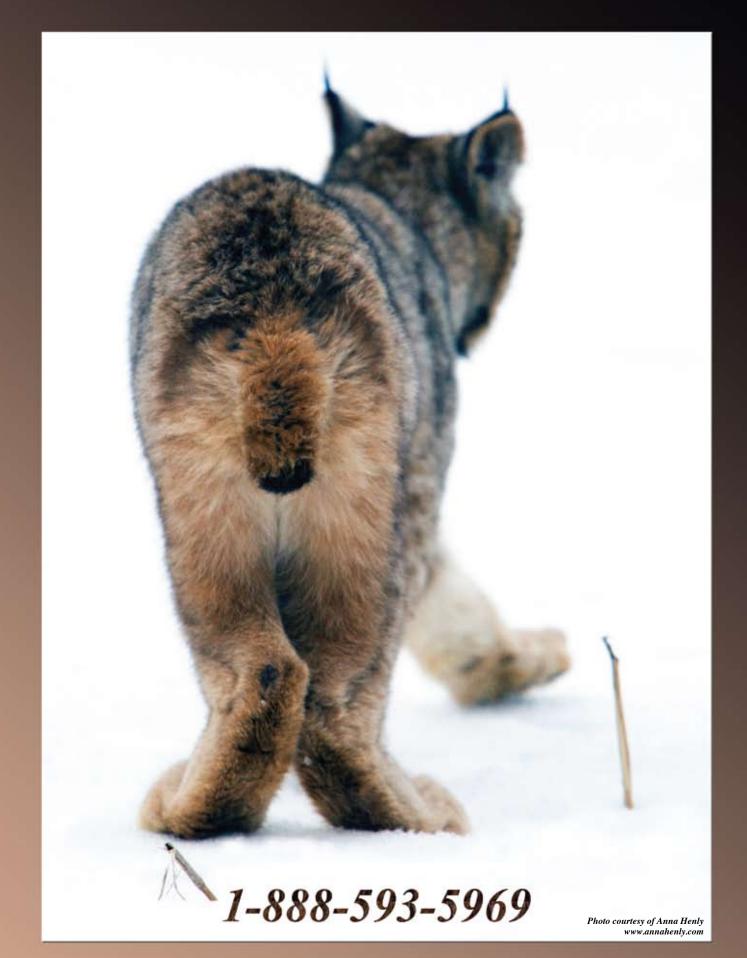
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