



HPLC Column Product Guide

2013-2014

*A new generation of HPLC
columns for more powerful
method development and
...peak performance*

- Microbore
- Analytical
- Semi-Preparative
- Preparative

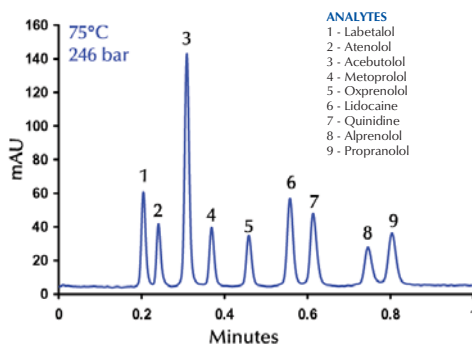
What's New?

Introducing ZirChrom[®] UHPLC Sub 2 Micron HPLC Columns

A New Class of Small Particle Chromatography Products

ZirChrom Separations, Inc. is pleased to announce the arrival of a full line of zirconia-based sub 2 micron HPLC phases, ZirChrom[®] UHPLC. These new small particle stationary phases incorporate the unsurpassed chemical and mechanical stability of zirconia with the efficiency benefits of sub 2 micron particles.

High Temperature Analysis of Nine Pharmaceuticals using Sub 2- μ m ZirChrom[®]-PBD



LC CONDITIONS

Mobile phase: 22/78 Acetonitrile/20mM Potassium Phosphate, pH 12.0
Flow rate: 2.5 mL/min. Temperature: 75 °C
Injection volume: 2 μ l Detection: 254 nm
Pressure drop: 246 bar
Column: ZirChrom[®]-PBD, 50 x 4.6 mm i.d. part# ZR03-0546-1.9

PACKING	PART	PRICE
ZirChrom [®] -CARB	ZR01-0546-1.9	\$853.00
ZirChrom [®] -PHASE	ZR02-0546-1.9	\$743.00
ZirChrom [®] -PBD	ZR03-0546-1.9	\$743.00
ZirChrom [®] -MS	MS01-0546-1.9	\$743.00
ZirChrom [®] -SAX	ZR06-0546-1.9	\$743.00





ORDERING INFORMATION

Ordering Information

This catalog contains information regarding ZirChrom's line of analytical columns for HPLC. Current pricing information is contained on the back of this catalog. Further information regarding preparative-scale separation media is available upon request. Pricing information about custom column formats is available upon request. Call 1-866-STABLE-1 or visit us at www.zirchrom.com.

Discounts

ZirChrom will provide special quotations for high volume purchases of columns. Please call for details.

Terms and Conditions

Terms of payment are NET 30 days, F.O.B. Anoka, Minnesota, U.S.A. A 1.5% per month (18% A.P.R.) service charge will be added to delinquent accounts. All prices are subject to change without notice. Orders will be shipped via UPS or common carrier unless otherwise instructed.

Return Privilege and Policy

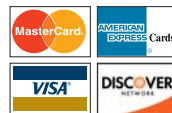
Please contact our Customer Service/Ordering Department to assist you, should any problem or concern arise about your order. Prior to returning any items, contact our Customer Service/Ordering Department for a Return Authorization Number and shipping instructions. A return authorization will ensure proper handling of the product and enable us to expedite processing of your order to your satisfaction. Returns must be made within 90 days of original shipment.

Liability

Our products are intended for use in the laboratory. ZirChrom Separations, Inc. assumes no responsibility if these products are misused in any way. The information published in this catalog is correct and accurate to the best of our knowledge. ZirChrom assumes no responsibility with respect thereto.

90-Day Risk-Free Warranty

ZirChrom Separations, Inc. is dedicated to the production of zirconia-based separation media for High Performance Liquid Chromatography. To assure a reproducible and robust final product, only the highest quality standards are used.



HPLC Column Ordering Information

Phase Number	Phase Name	Mode of Use
DB01	DiamondBond-C18	Reversed-Phase
EZ01	ZirChrom-EZ	Reversed-Phase
MS01	ZirChrom-MS	Reversed-Phase
ST01	ZirChrom-SELECT	Reversed-Phase
TI01	Sachtopore-RP	Reversed-Phase
TI02	Sachtopore-NP	Normal Phase and SEC
ZR01	ZirChrom-CARB	Reversed-Phase
ZR02	ZirChrom-PHASE	Normal Phase and SEC
ZR03	ZirChrom-PBD (USP L49)	Reversed-Phase
ZR04	ZirChrom-WCX	Weak Cation-Exchange
ZR05	ZirChrom-WAX	Weak Anion-Exchange
ZR06	ZirChrom-SAX	Strong Anion-Exchange
ZR07	ZirChrom-SHAX	Strong Anion-Exchange
ZR08	ZirChrom-PEZ	Cation-Exchange (Proteins)
ZR09	ZirChrom-PS	Reversed-Phase
ZRC01	ZirChrom-Chiral(S)LEU	Brush-Type, pi-acceptor
ZRC02	ZirChrom-Chiral(R)NESA	Brush-Type, pi-donor
ZRC03	ZirChrom-Chiral(S)NESA	Brush-Type, pi-donor
ZRC04	ZirChrom-Chiral(S)PG	Brush-Type, pi-acceptor
ZRC05	ZirChrom-Chiral(R)PG	Brush-Type, pi-acceptor
ZRC06	ZirChrom-CelluloZe	Carbohydrate

A column part number is constructed as follows: PPPP-XXYY where PPPP is the phase number, XX is the column length, and YY is the column diameter. For example, MS01-1546 specifies a 15 cm by 4.6 mm column containing ZirChrom-MS. The table below has the prices for ZirChrom's products in different column formats; for Guard Columns, PPPP is the phase number, then add XXX for column diameter, G20 for 2.1 mm column diameter or G40 for 4.6 mm diameter.

Column Format	Phase Number			
	Specialty Phases DB01, ST01, ZR01, ZRC01 thru ZRC05	Polymer Reversed-Phases EZ01, MS01, TI01 ZR03, ZR09	Normal/Ion Exch. Phases TI02, ZR02, ZR04, ZR05, ZR06, ZR07, ZR08	Carbohydrate Phase ZRC06
5 cm Columns 0521 (5 cm x 2.1 mm) 0546 (5 cm x 4.6 mm)	3 μ m \$743* 5 μ m \$689	3 μ m \$633* 5 μ m \$579	3 μ m \$633* 5 μ m \$579	3 μ m \$1,266* 5 μ m \$1,157
10 cm Columns 1021 (10 cm x 2.1 mm) 1046 (10 cm x 4.6 mm)	3 μ m \$743* 5 μ m \$689	3 μ m \$633* 5 μ m \$579	3 μ m \$633* 5 μ m \$579	3 μ m \$1,266* 5 μ m \$1,157
15 cm Columns 1521 (15 cm x 2.1 mm) 1546 (15 cm x 4.6 mm)	3 μ m \$765* 5 μ m \$711	3 μ m \$655* 5 μ m \$601	3 μ m \$655* 5 μ m \$601	3 μ m \$1,310* 5 μ m \$1,201
1 cm Guard Columns G20 (use with 2.1 mm) G40 (use with 4.6 mm)	Set of 3 inserts \$240	Set of 3 inserts \$218	Set of 3 inserts \$218	Set of 3 inserts \$437
Guard Column Holders 852-00 (use with 2.1 mm) 850-00 (use with 4.6 mm)	\$82	\$82	\$82	\$82

*All columns will be packed with 3 μ m particles unless 5 μ m particles are specifically requested. PEEK hardware and custom column formats (including microbore columns) are available by request.



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