

SolisFAST® Master Mix

Fast singleplex and
multiplex endpoint
PCR assays!

solisbiodyne.com



Features

- **Fast** – less time from sample to results
- **Accurate** – reliable results in single- and multiplex assays
- **Stable** – 1-2 months stable at room temperature*
- **Trustworthy** – avoid carry-over contamination with UNG mixes and get reliable results in Sanger sequencing applications

Use mixes to reduce set-up time even more. Add only primers, nuclease free water and DNA template.

* SolisFAST® Master Mixes are 2 months stable at 25°C and SolisFAST® Master Mixes with UNG are 1 month stable at 25°C.

SolisFAST® Master Mix is a 5x-concentrated solution for fast singleplex and multiplex endpoint PCR assays. The mix allows amplification of up to 5 kb fragments from low complexity DNA templates (e.g. lambda, plasmid DNA), and up to 3 kb from complex DNA templates (e.g. human genomic DNA). Combining our novel *in-silico* designed SolisFAST® DNA Polymerase with the Stability TAG ^{[1][2][3]}, increased tolerance to inhibitors and optimized buffer, this mix offers robust PCR, accurate target detection, ice-free shipping and reaction set-up.

Results in 20 minutes!

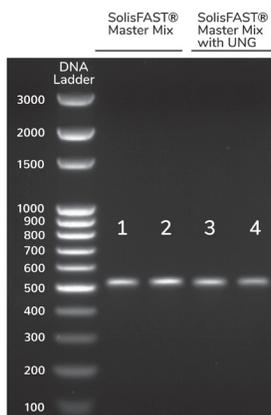


Figure 1. SolisFAST® Master Mixes are suitable for 'slow' and 'fast' PCR cyclers. HIRA gene fragment (515 bp) from human gDNA was amplified using SolisFAST® Master Mix (lane 1-2) and Master Mix with UNG (lane 3-4). Fast cycling settings (initial activation 1 min at 98 °C; denaturation 5 sec at 98 °C, annealing/extension 20 sec at 60 °C, 25 cycles) were used on Biometra T1 Thermocycler (lane 1 and 3) and Eppendorf® Mastercycler® X50s (lane 2 and 4).

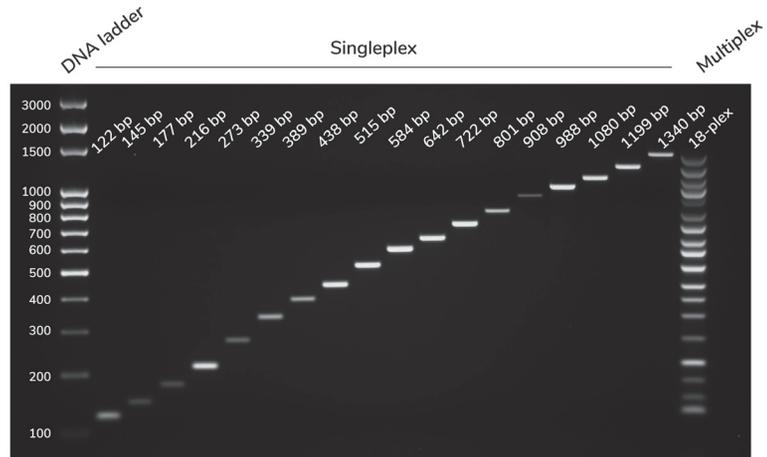
PCR cycler	Cycler's ramp rate	PCR run time (min)
Biometra T1 = 'slow' machine	5 °C/sec	26
Eppendorf X50s = 'fast' machine	10 °C/sec	20

**World-
wide
ice-free
shipping!**

[1] Kahre, O., Artma, K., Kahre, T. (2015). European Patent No. 2501716 B1. [2] Kahre, O., Artma, K., Kahre, T. (2016). US Patent No. 9,321,999 B2. [3] Kahre, O., Artma, K., Kahre, T. (2017). South Korea Patent No. 10-1773636 B1.

Excellent singleplex and multiplex PCR results!

Figure 2. Equal performance of SolisFAST® Master Mix in singleplex and multiplex assay.
Eighteen fragments of human gDNA (ranging from 122 to 1340 bp) were amplified in singleplex and multiplex PCR. Amplifications were performed as a single run on Eppendorf® Mastercycler® X50s using 3-step cycling program optimized for multiplex assays (initial activation 2 min at 98 °C; denaturation 10 sec at 98 °C, annealing 10 sec at 60 °C, extension 30 sec at 72 °C (30 cycles).



dUTP and UNG don't affect Sanger sequencing results!

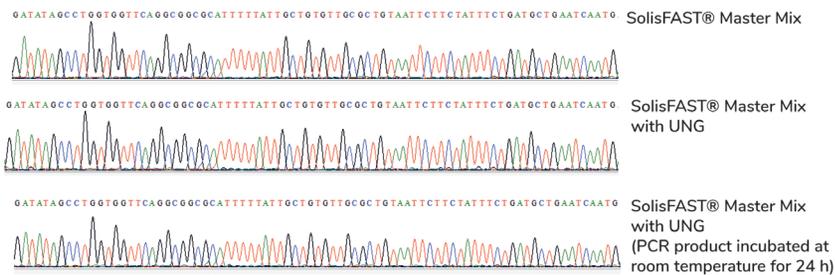


Figure 3. Sanger sequencing of products obtained with SolisFAST® Master Mix and Master Mix with UNG. The presence of UNG enzyme in PCR sample doesn't affect the sequencing results after 24-hour incubation of PCR products at room temperature.

Avoid carry-over contamination with mixes containing UNG!

Ordering information

Product	CAT. NO.	RXN / 20 µl
SolisFAST® Master Mix	24-01-00001 24-01-00001-5 24-01-00020	250 rxn / 20 µl 5x (250 rxn / 20 µl) 5000 rxn / 20 µl
SolisFAST® Master Mix, Ready To Load	24-02-00001 24-02-00001-5 24-02-00020	250 rxn / 20 µl 5x (250 rxn / 20 µl) 5000 rxn / 20 µl
SolisFAST® Master Mix with UNG	24-21-00001 24-21-00001-5 24-21-00020	250 rxn / 20 µl 5x (250 rxn / 20 µl) 5000 rxn / 20 µl
SolisFAST® Master Mix with UNG, Ready To Load	24-22-00001 24-22-00001-5 24-22-00020	250 rxn / 20 µl 5x (250 rxn / 20 µl) 5000 rxn / 20 µl

Samples are available. Please contact us at tech@biolynx.ca.



Available in Canada from...



CHROMATOGRAPHIC SPECIALTIES INC.

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