



**SOLIS
BIODYNE**

INNOVATION POWERED BY NATURE

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On point endpoint PCR

Room-temperature-stable
solutions for your PCR assay

solisbiodyne.com



Ice-free shipping

Easy handling

Robust performance

Solis BioDyne offers optimized 5x concentrated ready-to-use master mixes for endpoint PCR assays. All our endpoint PCR master mixes are stable at room temperature with no activity loss for up to 1 month, all thanks to our patented Stability TAG¹ technology. For enhanced specificity, we provide master mixes containing HOT FIREPol[®] DNA Polymerase with a chemical hot-start feature (please refer to the other side for more information).

¹ Kahre, O. et al., Compositions for increasing polypeptide stability and activity, and related methods, EP2501716B1 (2015) and US9321999B2 (2016).

Master mix components:

- FIREPol[®] DNA Polymerase or HOT FIREPol[®] DNA Polymerase
- MgCl₂
- dNTPs
- Buffer (with or without loading dye)

Standard PCR Master Mixes

FIREPol[®] Master Mix



Convenient Master Mix for standard PCR applications.

- Reduces pipetting errors
- Saves time
- Amplicons are suitable for Sanger sequencing post-PCR
- Up to 5 kb amplicons
- 2 different MgCl₂ concentrations
- Sensitive detection (Figure 1)

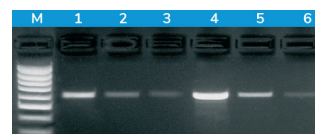


Figure 1. 672 bp fragment was amplified from barley genomic DNA using FIREPol[®] Master Mix (lane 1-3) and FIREPol[®] Master Mix Ready To Load (lane 4-6). Template DNA was used at three tenfold dilutions starting from 1 ng/ μ l. The Master Mixes performed well even at a template concentration as low as 0.01 ng/ μ l.

FIREPol[®] Master Mix Ready to Load



- Direct loading to gel after PCR
- Loading dyes do not inhibit PCR
- Easy to track yellow and blue bands on agarose gel
- Reducing expenses (no need to purchase loading dye separately)

Ready to Load format also includes a compound needed for direct loading onto an agarose gel and two tracking dyes (blue and yellow).



Hot-start PCR Master Mixes

Solis BioDyne portfolio includes incredible master mixes with HOT FIREPol® DNA Polymerase, a chemically modified version of FIREPol® DNA Polymerase.

The hot-start feature:

- Improves specificity and accuracy
- Minimizes mispriming and primer-dimer formation.

Did you know?

MgCl₂ acts as a cofactor and is a catalyzer in PCR reaction. Mg²⁺ ions bind to the catalytic site of the DNA polymerase and catalyze phosphodiester bond formation between the two dNTPs. Our mixes come with different Mg²⁺ to fit your needs.

HOT FIREPol® Blend Master Mix and HOT FIREPol® Blend Master Mix Ready To Load



- Our most popular PCR mixes
- Proofreading enzyme included for up to 5x higher fidelity than Taq alone
- 3 different MgCl₂ concentrations
- High yield, specificity, and sensitivity
- Clients report up to 52x plex ability
- Excellent performance with plant DNA samples

Reference:

“ This product is very useful for different lab experiments. During my talks with lab staff I openly say that this product gives the same or better results than other big suppliers. We have many satisfied customers for this product in both research and clinical sectors. ”

MARTIN JANITOR

Amplia, distributor in Slovakia

HOT FIREPol® MultiPlex Mix and HOT FIREPol® MultiPlex Mix Ready To Load



- Detect multiple targets in a single reaction (Figure 2):
 - Save time and consumables
 - Get more data from the single reaction
 - Save rare samples
 - Decrease cost per reaction
- High yield and specificity achieved with minimal optimization
- High potential in the diagnostic sector

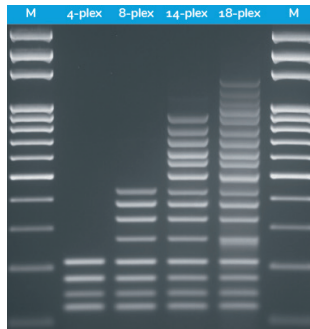


Figure 2. Different genes from human gDNA were amplified in multiplex reactions using HOT FIREPol® MultiPlex Mix. Amplicons ranging from 122 bp to 1340 bp show similar yield and high specificity with simultaneous amplification in 4-, 8-, 14-, and 18-plex PCR assays.

Tip!

For spectrophotometric measurements use master mix without loading dye!

FL-04-V1



For further details and ordering please contact info@solisbiodyne.com or call +372 740 9960

Request a FREE SAMPLE!