

HOT FIREPol® Multiplex qPCR Mix



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For research use only.

Description

HOT FIREPol® Multiplex qPCR Mix (ROX) is optimized for amplifying multiple targets in a single reaction in real-time quantitative PCR assays. The qPCR Mix comprises all the components necessary (except primers, probes and template) to perform qPCR: HOT FIREPol® DNA Polymerase, optimized buffer components, ultrapure dNTPs, MgCl₂ and Purple passive reference dye according to system requirements.

HOT FIREPol® Multiplex qPCR Mix (ROX) is optimized for DNA hydrolysis probes based on the 5' flap endonuclease activity.

HOT FIREPol® DNA Polymerase is activated by a 10 min incubation step at 95°C. This prevents extension of non-specifically annealed primers and primer-dimers formed at low temperatures during qPCR setup.

Probe-based qPCR Mix optimized for amplifying multiple targets in a single reaction

Probe-based qPCR master mix that has been optimized for highly sensitive and accurate quantification of up to 4 targets in a single reaction. This master mix was developed for TaqMan® probes but is also suitable for other hydrolysis probe types

- analyze 1-4 targets in 1 reaction
- high specificity and sensitivity
- robust amplification of GC-rich targets
- contains dUTP to prevent cross-contamination when used in combination with UNG

Ordering

Choose Product Size

- 1 ml | 250 rxn
- 5 x 1ml | 1250 rxn
- 10 x 1ml | 2500 rxn
- 20 ml | 5000 rxn
- 0.2 ml | 50 rxn **free sample**

REQUEST FOR BULK SIZE

Properties

Concentration: 5x

Hot-start: yes, initial activation in 10 min

Detection type: Probe-based

Reference dye: ROX

Suitable qPCR Cyclers: qPCR platforms from Applied Biosystems and Agilent/Stratagene.

Applications

detection and quantification of DNA and cDNA targets
profiling gene expression
microbial detection
viral load determination

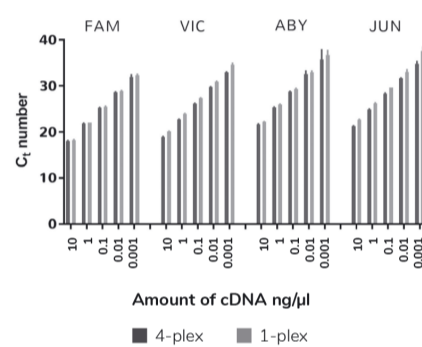
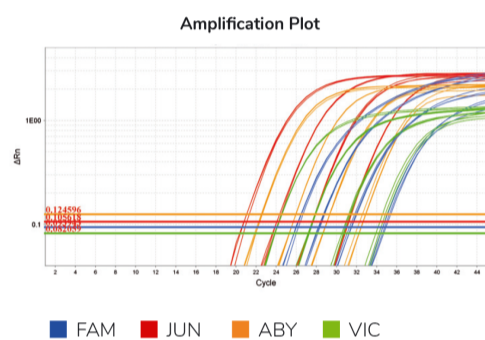
Mix Components

HOT FIREPol® DNA Polymerase: chemically modified FIREPol® DNA Polymerase enabling hot-start

5x Multiplex qPCR buffer with 15 mM MgCl₂: 1x PCR solution – 3mM MgCl₂

dNTPs including dUTP: the mix allows UNG treatment to prevent carryover contamination from previous runs.
IMPORTANT: UNG is not included in the HOT FIREPol® Multiplex qPCR Mix

ROX dye: If ROX, Texas Red, or similar dye is used as one of the fluorophores, ROX passive reference dye might interfere with the signal. A version without passive reference or with Purple reference dye is available.



Reference:

“ Convinced with the performance and quality of the product in multiple applications: robust enzyme activity and reproducible results in single and highly multiplexed PCRs. A “must-have” in the laboratory. ”

DR. SERGEY YAKUSHEV
Head of the laboratory
Microsynth, Switzerland

Excellent for 4-plex assays

Same level of sensitivity with
multiplexing

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