

HOT FIREPol® Probe qPCR Mix Plus

Sensitive qPCR Mix designed for effective quantification of DNA targets with probe-based chemistry



97 /100 82 Citations

Cost-effective real-time qPCR master mix for probe-based qPCR assays.

This master mix has been developed for TaqMan® probes but is suitable for other hydrolysis probe types as well.

suitable for singleplex and duplex assays

high specificity and sensitivity

reaction set-up and shipment without dry ice

Ordering

Some applications of this product may require a license which is not provided by the purchase of this product.

For research use only.

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

Description

HOT FIREPol® Probe qPCR Mix Plus (ROX) is optimized for real-time quantitative PCR assays and contains all the components necessary to perform qPCR, with the exception of template, primers, and probe.

The qPCR Mix contains optimized components and HOT FIREPol® DNA Polymerase supplied in a proprietary reaction buffer that enables detection of low copy number targets. HOT FIREPol® Probe qPCR Mix Plus (ROX) is optimized for DNA hydrolysis probes based on the 5' flap endonuclease activity.

HOT FIREPol® DNA Polymerase is activated by a 12 min incubation step at 95°C. This prevents the extension of non-specifically annealed primers and primer-dimers formed at low temperatures during qPCR setup.

Properties

Concentration: 5x

Hot-start: yes, initial activation in 12-15 min

Detection type: Probe-based

Reference dye: ROX

Compatible real-time instruments: Cyclers that require ROX reference dye.

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

dNTPs: dATP, dCTP, dGTP and dTTP

ROX reference dye

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