

# HOT FIREPol® Probe Universal qPCR Mix

High performing probe-based qPCR Mix for AT-rich, regular and GC-rich templates

95 /100 9 Citations

Precisely-optimized real time qPCR master mix for probe-based assays. This master mix has been developed for TaqMan® probes but is also suitable for other hydrolysis probe types.



- suitable for singleplex and duplex assays
- high specificity and sensitivity
- one qPCR mix for all cyclers (except capillary)
- superior results with templates with up to 75% GC content
- contains dUTP to prevent cross-contamination when used with UNG
- Benchtop stability for 48 hours for preassembled reactions

## Ordering

### Choose Product Size

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

REQUEST FOR BULK SIZE

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

**For research use only.**

## — Reagents Provided

Item	Pcs.	Vial size
HOT FIREPol® Probe Universal qPCR Mix	1	1 ml   250 rxn
DMSO 100%	1	0.5 ml

## Description

HOT FIREPol® Probe Universal qPCR Mix is optimized for real-time quantitative PCR assays and contains all the components necessary to perform singleplex or duplex qPCR, with the exception of template, primers, and probes. Proprietary reaction buffer that enables efficient amplification of regular and GC-rich targets.

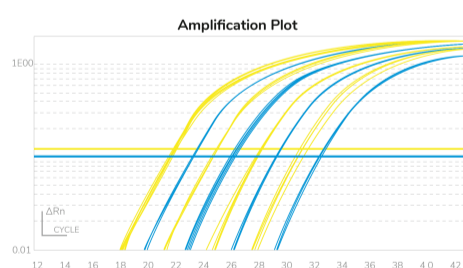
HOT FIREPol® Probe Universal qPCR Mix is optimized for DNA/LNA hydrolysis probes based on the 5' flap endonuclease activity.

The Mix contains internal passive reference dye that is compatible with most qPCR cyclers including high ROX or low ROX reference signal requiring platforms.

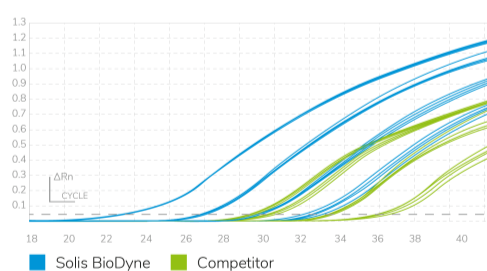
The Mix contains dUTPs to prevent cross-contamination with UNG treatment.

## Applications

- DNA/LNA hydrolysis probe-based assays
- Detection and quantification of DNA and cDNA targets
- Profiling gene expression
- Microbial detection
- Viral load determination



qPCR performance in a duplex reaction



Highly competitive qPCR mix

## Properties

**Concentration:** 5x

**Hot-start:** yes, initial activation in 10 min

**Detection type:** Probe-based

**Reference dye:** reference dye based on ROX

**Compatible real-time instruments:** Most qPCR platforms.

## Mix Components

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

**5x Probe Universal qPCR buffer with 15 mM MgCl<sub>2</sub>:** 1x PCR solution – 3 mM MgCl<sub>2</sub>

**dNTPs including dUTP:** Mix allows UNG treatment to prevent carryover contamination from previous runs.

**IMPORTANT:** UNG is not included in the HOT FIREPol® Probe Universal qPCR Mix

**Reference dye based on ROX:** For multiplex application - if ROX dye is used as one of the fluorophores, the internal reference might interfere with the signal.

**In separate vial**

**100% DMSO** is included in the kit in a separate vial. DMSO is recommended as a PCR additive for templates with high GC content. In some cases, DMSO is also required to relax secondary structures.

### India Contact:

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura,  
Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222

Mobile: +91-9810521400

Fax: +91-11-42208444

Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com)

Web: [www.lifetechindia.com](http://www.lifetechindia.com)