

HOT FIREPol® EvaGreen® qPCR Supermix

Highly specific and reproducible dye-based qPCR Mix with blue visualization dye for easy pipetting

98 /100 116 Citations

Optimized ready-to-use solution for dye-based real-time quantitative PCR assays. This master mix has been developed to give highly specific and sensitive results and demonstrates excellent performance with GC-rich regions.



- high sensitivity with low DNA concentrations
- blue dye to ease pipetting
- reduced primer dimer formation
- one qPCR mix for all cyclers (except capillary and high ROX* cyclers)
- contains dUTP to prevent cross-contamination with UNG treatment

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

Applications

- Detection and quantification of DNA and cDNA targets
- Profiling gene expression
- Microbial detection
- Viral load determination

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

For research use only.

Description

HOT FIREPol® EvaGreen® qPCR Supermix is an optimized 5X reaction mix for dye-based qPCR detection and quantitation of target DNA sequences using EvaGreen® dye and SYBR®/FAM channel of most real-time qPCR instruments.

The Mix contains HOT FIREPol® DNA Polymerase and a passive internal reference dye that is compatible with most qPCR cyclers including no ROX and low ROX* reference signal requiring platforms.

The Mix contains dUTPs to prevent cross-contamination with UNG treatment and visible dye to ease reaction set-up. This dye does not interfere with real-time detection.

Mix Components

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

5x EvaGreen® qPCR buffer with 12.5 mM MgCl₂: 1x PCR solution – 2.5 mM MgCl₂

dNTPs, including dUTP: mix allows UNG treatment to prevent carryover contamination from previous runs.

IMPORTANT: UNG is not included in the HOT FIREPol® EvaGreen® Supermix

EvaGreen® dye

Internal reference based on ROX dye

GC-enhancer

Blue visualisation dye

Properties

Concentration: 5x

Hot-start: yes, initial activation in 12 min

Detection type: dye-based, includes EvaGreen® intercalating dye

Reference dye*: based on ROX

Compatible real-time instruments: most qPCR cyclers.

IMPORTANT UPDATE! HOT FIREPol® EvaGreen® qPCR Supermix is not compatible with high ROX cyclers such as Applied BioSystems® StepOne™ or StepOnePlus™

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