

HOT FIREPol® EvaGreen® qPCR Mix Plus

Cost-effective dye-based qPCR Mix with passive reference dye with ROX

99 /100 618 Citations

high sensitivity and specificity

excellent efficiency

reaction set-up and shipment without dry ice

cost-effective solution for a wide range of applications



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

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

For research use only.

Description

Dye-based real-time quantitative PCR (qPCR) uses DNA binding dye to evaluate the DNA amplification process during PCR. In this mix EvaGreen® double-stranded DNA binding dye is used instead of the more widely used SYBR Green I that has similar fluorescence spectra. Compared to SYBR Green I dye EvaGreen® dye shows a higher fluorescence level, high sensitivity for detecting low template concentrations, and high stability at room temperature.

HOT FIREPol® EvaGreen® qPCR Mix Plus (ROX) is an optimized ready-to-use solution for dye-based real-time quantitative PCR assays on cyclers that require passive reference dye (including high ROX or low ROX reference signal requiring platforms).

Properties

Concentration: 5x

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

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

Reference dye: based on 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 EvaGreen® qPCR buffer with 12.5 mM MgCl₂: 1x PCR solution – 2.5 mM MgCl₂

dNTPs: dATP, dCTP, dGTP and dTTP

EvaGreen® dye

Internal reference based on ROX dye

EvaGreen Dye

EvaGreen® is a DNA-binding dye with many features that make it a superior alternative to SYBR® Green I for qPCR. Apart from having similar spectra, EvaGreen® has three important features that set it apart from SYBR® Green I: EvaGreen® has much less PCR inhibition, is an extremely stable dye, and has been shown to be non-mutagenic and non-cytotoxic. EvaGreen® is compatible with all common real-time PCR cyclers – simply select the standard settings for SYBR® Green or FAM!

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