

HOT FIREPol® EvaGreen® HRM Mix

Optimized ready-to-use solution for High Resolution Melt (HRM) Analysis

highly sensitive mix for accurate SNP detection
 sensitive EvaGreen® dye for reliable HRM performance
 reaction set-up without dry ice



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

For research use only.

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 **free sample**

REQUEST FOR BULK SIZE

Description

High-Resolution Melt (HRM) analysis is a fast and cost-effective method for post-PCR analysis to detect single nucleotide polymorphisms (SNP genotyping), genetic mutations, and DNA sequence variations.

HOT FIREPol® EvaGreen® HRM Mix is an optimized ready-to-use solution for HRM analysis, incorporating EvaGreen® dye.

It comprises all the components necessary to perform qPCR and HRM Analysis: HOT FIREPol® DNA Polymerase, ultrapure dNTPs, MgCl₂, EvaGreen® dye, and ROX dye according to system requirements. The user simply needs to add water, template, and primers.

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.

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: Cyclers that require ROX reference dye (Applied BioSystems).

Applications

High-Resolution Melt (HRM)
SNP detection
dye-based qPCR

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

ROX reference dye

Bovine serum albumin (BSA) to enhance qPCR reaction

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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