



## 5x HOT FIREPol® Probe Universal qPCR Mix

Cat. No.

Lot. No.

Dispense No.

Kit expiry date

### Description:

HOT FIREPol® Probe Universal qPCR Mix 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® DNA Polymerase is activated by a 10 min incubation step at 95°C. This prevents extension of non-specifically annealed primers and primer-dimers formed at low temperatures during qPCR setup.

### Mix Composition:

- **HOT FIREPol® DNA Polymerase**
- **5x Probe Universal qPCR buffer**
- **15 mM MgCl<sub>2</sub>**  
*1x PCR solution – 3 mM MgCl<sub>2</sub>*
- **dNTPs**, including dUTP  
*Mix may used with UNG to prevent carryover contamination from previous runs*
- **Internal reference based on ROX dye**  
*For multiplex application: if ROX dye is used as one of the fluorophores, internal reference might interfere with the signal – version without ROX available upon request*

### Shipping and Storage conditions:

Routine storage: -20°C.

Shipping and temporary storage for up to 1 month at room temperature has no detrimental effects on the quality of HOT FIREPol® Probe Universal qPCR Mix.

### Quality Control:

Assay	Result
Amplification efficiency	≥10 <sup>9</sup> fold
qPCR reproducibility	passed
ds Endodeoxyribonuclease activity	no
ss Exodeoxyribonuclease activity	no
Self-priming activity	no

### Safety warnings and precautions:

This product and its components should be handled only by persons trained in laboratory techniques. It is advisable to wear suitable protective clothing, such as laboratory overalls, gloves and safety glasses. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water.

*Some applications this product is used in may require a license which is not provided by the purchase of this product. Users should obtain the license if required.*

**FOR RESEARCH USE ONLY**

**APPROVED BY:**

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