



5x HOT FIREPol® Multiplex qPCR Mix (ROX)

Cat. No.

Lot. No.

Dispense No.

Kit expiry date

Description:

HOT FIREPol® Multiplex qPCR Mix (ROX) is optimized for amplifying multiple targets in a single reaction in real-time quantitative PCR assays. The qPCR Mix comprises all the components necessary (except primers, probes and template) to perform qPCR: HOT FIREPol® DNA Polymerase, optimized buffer components, ultrapure dNTPs, MgCl₂ and ROX passive reference dye according to system requirements.

HOT FIREPol® Multiplex qPCR Mix (ROX) is optimized for DNA hydrolysis probes based on the 5' flap endonuclease activity.

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 Multiplex qPCR buffer**
- **15 mM MgCl₂**
1x PCR solution – 3 mM MgCl₂
- **dNTPs, including dUTP**
- **ROX dye**

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® Multiplex qPCR Mix (ROX).

Quality Control:

Assay	Result
Amplification efficiency	≥10 ⁹ fold
qPCR reproducibility	passed
Endodeoxyribonuclease activity	no
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:
