

HotTaq EvaGreen qPCR Mix (ROX)

Cat. No.	Pack Size
BT11101c	1 ml (250 reactions)

Lot no: Aa20120615

Exp. Date: 12.2013

For in vitro use only

Applications:

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

Reagent Composition:

- **HotTaq DNA polymerase**
- **5x qPCR buffer E**
- **12.5 mM MgCl₂**
1 x PCR solution-2.5 mM MgCl₂
- dNTPs, including dTTP to improve reaction sensitivity efficiency compared to dUTP
- **EvaGreendye**
- **ROX dye**

Description:

HotTaq EvaGreen qPCR Mix (Rox) is optimized for real-time quantitative PCR assays. The ready-to-load mix includes HotTaq DNA polymerase, ultrapure dntps, MgCl₂ and EvaGreen dye and Rox. Only water, template and primers needs to be added.

HotTaq DNA polymerase is activated by a 15 min incubation step at 95°C. This prevents extension of non-specifically annealed primers and primer-dimers formed at low temperatures during qPCR setup.

EvaGreen Dye:

EvaGreen is a DNA-binding dye for qPCR that, compared to SYBE Green I, has similar spectra but much less PCR inhibition. It is extremely stable dye and has been shown to be nonmutagenic and noncytotoxic.

EvaGreen is compatible with all common real-time PCR cyclers- simply select the standard settings for SYBR Green or FAM!

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 HotTaq EvaGreen qPCR Mix (no ROX).

Recommended qPCR reaction mix:

Component	Volume	Final conc
5 x HotTag EvaGreen qPCR Mix	4 µl	1x
Primer Forward (10 pmol/ µl)	0.16-0.5 µl	80-250nM
Primer Reverse (10 pmol/ µl)	0.16-0.5 µl	80-250nM
DNA template	1-5 µl	1-50 ng/ µl
H ₂ O PCR grade	Up to 20 µl	
Total	20 µl	

Recommended qPCR cycles:

Cycle step	Temp.	Time	cycles
Initial denaturaion	95°C	15 min	1
Denaturation	95°C	15 s	40
Annealing	60°C-65°	60 s	
Elongation	72°	20 s	

IMPORTANT: To activate the polymerase, include an incubation step at 95°C for 15 minutes at the beginning of the qPCR cycle.

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.

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The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer, where such research does not include testing, analysis or screening services for any third party in return for compensation on a per test basis. The buyer cannot not sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes.