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5 x Hot Start Taq EvaGreen® qPCR Mix (No ROX)

Cat. No.	Pack Size	Conc. (MgCl ₂)
27486	0.2 ml SAMPLE (50 reactions)	12.5 mM
27490	1 ml (250 reactions)	12.5 mM

For in vitro use only

Description:

Hot Start Taq EvaGreen® qPCR Mix (No ROX) is an optimised ready-to-use solution for real-time quantitative PCR assays, incorporating EvaGreen® dye. It comprises all the components necessary to perform qPCR: Hot Start Taq DNA Polymerase, ultrapure dNTPs, MgCl₂ and EvaGreen® dye. The user simply needs to add water, template and primers.

Hot Start Taq DNA Polymerase is activated by a 15 min incubation step at 95℃. This prevents extension of non-specifically annealed primers and primer-dimers formed at low temperatures during qPCR setup.

Applications:

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

Mix Composition:

- Hot Start Taq DNA Polymerase
- 5 x EvaGreen® qPCR buffer
- 12.5 mM MgCl₂ 1 x PCR solution – 2.5 mM MgCl₂
- dNTPs, including dTTP to improve reaction sensitivity and efficiency compared to dUTP
- EvaGreen[®] dye
- No 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 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 Hot Start Taq EvaGreen® qPCR Mix (No ROX).

Recommended qPCR reaction mix:

Component	Volume	Final conc.	
5 x Hot Start Taq EvaGreen® qPCR Mix	4 μΙ	1x	
Primer Forward (10 pmol/µl)	0.16-0.5 µl	80-250 nM	
Primer Reverse (10 pmol/µl)	0.16-0.5 µl	80-250 nM	
DNA template	1-5 µl	1-50 ng/µl	
H₂O PCR grade	up to 20 µl		
Total	20 µl		

Recommended qPCR cycles:

Cycle step	Temp.	Time	Cycles
Initial denaturation	95°C	15 min	1
Denaturation	95°C	15 s	
Annealing	60°C	20 s	40
Elongation	68-72°C	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.

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