

CinnaGreen qPCR Mix, 2X (no ROX)

Cat. No.:MM2041

STORE:-20°C

QUANTITY: 250 reactions/ 20 µl

SHIPMENT: Wet or dry Ice

Description: CinnaGreen qPCR Mix,2x allows quantitative real-time analysis of DNA samples based on EVAGreen fluorescent DNA stain. During PCR, EVAGreen intercalates into the amplified DNA. No synthesis of labeled probes is required, thus target DNA may rapidly be analyzed. CinnaGreen qPCR Mix,2x contain all reagents required for qPCR(except template, primer). Additionally, sterile and PCR grade water is supplied.

Spectral Property: $\lambda_{abs}/\lambda_{em} = 500/530$ nm (DNA bound); $\lambda_{abs} = 471$ nm (without DNA)

For in vitro use only

Applications:

- Detection and quantification of DNA and cDNA targets
- Viral load determination

Reagent Composition:

HotTaq DNA polymerase, 5mM MgCl₂, 0.4mM dNTPs, EvaGreen Dye, No ROX dye

Components (supplied):

CinnaGreen qPCR Mix,2X	2*1.25 µl
Distilled Water	2*1 ml

Stability: The kit is stable at -20°C until expiration date. Repeated freezing and thawing should be avoided.

Recommended qPCR reaction mix:

Component	Volume	Final conc.
CinnaGreen qPCR Mix, 2X	10 µl	1x
Primer Forward	Variable	0.1-0.5µM
Primer Reverse	Variable	0.1-0.5µM
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	10 min	1
Denaturation	95°C	10 s	45
Annealing	60°C-65°C	60 s	
Elongation	72°C	20 s	

IMPORTANT:To activate the polymerase, include an incubation step at 95°C for 10 minutes at the beginning of the qPCR cycle.

Note:

- Annealing temperature depends on the melting temperature of the primer used.
- Elongation time and temperature depends on fragment length.

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.