

CERTIFICATE OF ANALYSIS

Product: qPCR 2x SYTO-9 Master Mix

Catalog No: P591, P592, P593, P593xl

Lot No: P591112024

Date of Expiry: 11/2024

Composition: qPCR 2x SYBR Master Mix contains: 20 mM Tris-HCl, pH 8.8 (at 25°C), 100 mM KCl, 0.2% Triton X-100, 3 mM MgCl₂, 400 μM dATP, 400 μM dCTP, 400 μM dGTP, 400 μM dTTP, 50 U/ml Taq DNA polymerase, monoclonal antibody anti-Taq (38 nM), SYBR Green I, stabilizers and additives.

Supplied with: PCR Ultra H₂O (Cat. No. P040).

Storage temperature: For short terms (days) at 4°C ± 3°C.
For long terms at -20 ± 5°C. Material can be repeatedly defrosted.

Functional Test: The lot has been tested for the ability to amplify a fragment of genomic DNA using the following conditions:

Test conditions:

Volume*	Reagent	Final concentration
12.5 μl	qPCR 2x SYBR Master Mix	1x qPCR 2x SYBR Master Mix
0.5 μl	Forward primer	50 μM 5' primer, 5'-TTGGAGAGTTTGATCCTGGCTC-3'
0.5 μl	Reverse primer	50 μM 3' primer 5'-TTGGAGAGTTTGATCCTGGCTC-3'
1 μl	Template DNA	containing 10 ng of E-coli DNA
10.5 μl	PCR Ultra H ₂ O	(to a final volume 25 μl)

Cycling conditions on LightCycler 96, ROCHE:

	Temperature	Time	Number of cycles
Initial denaturation	94°C	3 min	1
Denaturation	94°C	10 s	35
Annealing of primers	55°C	10 s	
Extension	72°C	10 s	
Final extension	72°C	7 min	1
Cooling	22°C		

Result: As expected, Ct values were between 18 - 20, whereas in the absence of DNA Ct >35. Furthermore, electrophoresis of the PCR product on agarose gel revealed one band of 173 bp.

FOR RESEARCH USE**APPROVED DATE:** 02.08.2022

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