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CERTIFICATE OF ANALYSIS

Product: qPCR 2x Blue Master Mix

Catalog No: P521, P522, P523, P523xl

Lot No: P521102023

Date of Expiry: 10/2023

Composition: 2x concentrated LA Hot Start Plain Master Mix contains: 150 mM Tris-HCl, pH 8.8 (at 25°C), 40 mM $(NH_4)_2SO_4$, 0.02% Tween 20, 5 mM $MgCl_2$, 400 µM dATP, 400 µM dCTP, 400 µM dGTP, 400 µM dTTP, 100 U/ml Taq DNA polymerase blend, monoclonal antibody anti-Taq (38 nM), stabilizers and additives.

Supplied with: PCR Ultra H_2O (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.

Purity: Purity of Taq DNA polymerases is verified electrophoretically (SDS PAGE). Material is free of nucleases.

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 Blue	1x qPCR 2x Blue
0.5 µl	Forward primer	50 µM 5' primer 5'-ATGAACCCAGCCATCAGCG-3'
0.5 µl	Reverse primer	50 µM 3' primer 5'-GGGTAAGGACCTTGATATAGG-3'
1 µl	Template DNA	containing 80 ng of mouse genomic DNA
10.5 µl	PCR Ultra H_2O	(to a final volume 25 µl)

Cycling conditions:

	Temperature	Time	Number of cycles
Initial denaturation	94°C	1 min	1
Denaturation Annealing of primers Extension	94°C 55°C 72°C	15 s 15 s 1 min	30
Final extension	72°C	7 min	1
Cooling	22°C		

Result: As expected, electrophoresis of the PCR product on agarose gel revealed one band of 864 bp

FOR RESEARCH USE

APPROVED DATE: 01.04.2021

Manager: Hana Těšitelová