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CERTIFICATE OF ANALYSIS

Product: Aptamer Hot Start Master Mix

Catalog No: A613, A614, A615, A615xl

Lot No: A613122022

Date of Expiry: 12/2022

Composition: Aptamer Hot Start Master Mix contains: 150 mM Tris-HCl, pH 8.8 (at 25oC), 40 mM (NH4)2SO4, 0.02% Tween 20, 5 mM MgCl2, 400 µM dATP, 400 µM dCTP, 400 µM dGTP, 400 µM dTTP, 100 U/ml Taq DNA polymerase, DNA aptamer anti-Taq, dye, stabilizers and additives.

Supplied with: PCR Ultra H_2O (Cat. No. P040).

Storage temperature: At temperature -20°C ± 5°C. Material can be repeatedly defrosted.
For short period of times (up to 3 days) material can be stored at up to 30°C.

Purity: Purity of Taq DNA polymerase is verified by SDS PAGE, only one band of 94 kDa is observed in Coomassie blue stained gel. 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	Aptamer Hot Start MM	1x Master Mix (75 mM Tris-HCl, pH 8.8, 20 mM $(NH_4)_2SO_4$, 0.01% Tween 20, 200 µM dATP, 200 µM dCTP, 200 µM dGTP, 200 µM dTTP, 2.5 U Taq Purple DNA polymerase, monoclonal antibody anti-Taq, stabilizers and additives)
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: 10.07.2020

Manager: Hana Těšitelová