

CERTIFICATE OF ANALYSIS

Product:	Aptamer Hot Start Master Mix
Catalog No:	A613, A614, A615, A615xl
Lot No:	A613122024
Date of Expiry:	12/2024
Composition:	Aptamer Hot Start Master Mix contains: 150 mM Tris-HCl, pH 8.8 (at 25°C), 40 mM (NH ₄) ₂ SO 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, DNA aptamer anti-Taq, dye, stabilizers and additives.
Supplied with:	PCR Ultra H ₂ O (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) ₂ SO 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 ₂ O	(to a final volume 25 μl)

Cycling conditions:

	Temperature	Time	Number of cycles
Initial denaturation	94°C	1 min	1
Denaturation	94°C	15 s	30
Annealing of primers	55°C	15 s	
Extension	72°C	1 min	
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: 06.11.2022

Manager: Hana Těšitelová