

## CERTIFICATE OF ANALYSIS

**Product:** Aptamer Hot Start Master Mix

**Catalog No:** A613, A614, A615, A615xl

**Lot No:** A613122025

**Date of Expiry:** 12/2025

**Composition:** Aptamer Hot Start Master Mix contains: 150 mM Tris-HCl, pH 8.8 (at 25°C), 40 mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 0.02% Tween 20, 5 mM MgCl<sub>2</sub>, 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<sub>2</sub>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 <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , 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 <sub>2</sub> 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: 07.06.2023

Manager: Hana Těšitelová