

## CERTIFICATE OF ANALYSIS

<b>Product:</b>	Aptamer Taq DNA polymeráza
<b>Catalog No:</b>	A025, A026, A027
<b>Lot No:</b>	A025122023
<b>Date of Expiry:</b>	12/2023
<b>Concentration:</b>	1U/ $\mu$ l
<b>Storage buffer:</b>	20 mM Tris-HCl (pH 8.0 at 25°C), 100 mM KCl, 0.1 mM EDTA, 1 mM DTT, 0.5% Nonidet P-40, 0.5% Tween 20, inert red dye, stabilizers, 50% glycerol.
<b>Supplied with:</b>	10x PCR Blue Buffer: 750 mM Tris-HCl, pH 8.8 (at 25°C), 200 mM $(\text{NH}_4)_2\text{SO}_4$ , 1% Tween 20, 25 mM $\text{MgCl}_2$ .
<b>Storage temperature:</b>	-16 to -25 °C
<b>Purity:</b>	The enzyme was analyzed by SDS-PAGE and single band of ~94 kDa was observed
<b>Functional Test:</b>	The Lot has been tested for the ability to amplify a fragment of genomic DNA using the following conditions:
<b>Test conditions:</b>	39.5 $\mu$ l PCR H <sub>2</sub> O 5 $\mu$ l 10x PCR Blue Buffer with 25 mM $\text{MgCl}_2$ 1 $\mu$ l 10 mM dNTP mix (10 mM for each, dATP, dCTP, dGTP, and dTTP) 0.5 $\mu$ l 50 $\mu$ M 5' primer (5'-ATGAACCCAGCCATCAGCG-3') 0.5 $\mu$ l 50 $\mu$ M 3' primer (5'-GGGTAAGGACCTTGATATAGG-3') 2.5 $\mu$ l Aptamer Taq DNA polymeráza (2.5 U total) 1 $\mu$ l DNA containing 80 ng of mouse genomic (tail) DNA.
<b>Cycling conditions:</b>	95°C, 2 min initial denaturation, followed by 40 cycles of 94°C, 15 s (denaturation) 54°C, 15 s (annealing) 72°C, 60 s (extension)
<b>Result:</b>	As expected, electrophoresis of the PCR product on agarose gel revealed one band of 864 bp

FOR RESEARCH USE

APPROVED DATE: 04.11.2021

Manager: Hana Těšitelová