

## CERTIFICATE OF ANALYSIS

<b>Product:</b>	LA DNA Polymerases Mix
<b>Catalog No:</b>	L072, L073, L074
<b>Lot No:</b>	L072122024
<b>Date of Expiry:</b>	12/2024
<b>Concentration:</b>	5U/ $\mu$ l
<b>Storage buffer:</b>	20 mM Tris-HCl, pH 8.0 (25°C), 100 mM KCl, 0.1 mM EDTA, 1 mM DTT, 0.5% Nonidet P-40, 0.5% Tween 20, 50% glycerol.
<b>Supplied with:</b>	10x LA PCR reaction buffer: 500 mM Tris-HCl (pH 9.3 at 25°C), 150 mM (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> , 1% Tween 20, 22.5 mM MgCl <sub>2</sub> .
<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 $\mu$ l PCR H <sub>2</sub> O 5 $\mu$ l 10 x reaction buffer with MgCl <sub>2</sub> 2.5 $\mu$ l 10 mM dNTP mix (10 mM for each, dATP, dCTP, dGTP, and d TTP) 1 $\mu$ l DMSO (2%) 0.5 $\mu$ l 50 $\mu$ M 5' primer (5'-ATGAACCCAGCCATCAGCG-3') 0.5 $\mu$ l 50 $\mu$ M 3' primer 5'-GGGTAAGGACCTTGATATAGG-3') 0.5 $\mu$ l LA DNA Polymerases Mix (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: 3.10.2022

Manager: Hana Těšitelová