

CERTIFICATE OF ANALYSIS

Product:	LA DNA Polymerases Mix
Catalog No:	L072, L073, L074
Lot No:	L072122023
Date of Expiry:	12/2023
Concentration:	5U/ μ l
Storage buffer:	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.
Supplied with:	10x LA PCR reaction buffer: 500 mM Tris-HCl (pH 9.3 at 25°C), 150 mM (NH ₄) ₂ SO ₄ , 1% Tween 20, 22.5 mM MgCl ₂ .
Storage temperature:	-16 to -25 °C
Purity:	The enzyme was analyzed by SDS-PAGE and single band of ~94 kDa was observed
Functional Test:	The Lot has been tested for the ability to amplify a fragment of genomic DNA using the following conditions:
Test conditions:	39 μ l PCR H ₂ O 5 μ l 10 x reaction buffer with MgCl ₂ 2.5 μ l 10 mM dNTP mix (10 mM for each, dATP, dCTP, dGTP, and d TTP) 1 μ l DMSO (2%) 0.5 μ l 50 μ M 5' primer (5'-ATGAACCCAGCCATCAGCG-3') 0.5 μ l 50 μ M 3' primer 5'-GGGTAAGGACCTTGATATAGG-3') 0.5 μ l LA DNA Polymerases Mix (2.5 U total) 1 μ l DNA containing 80 ng of mouse genomic (tail) DNA.
Cycling conditions:	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)
Result:	As expected, electrophoresis of the PCR product on agarose gel revealed one band of 864 bp

FOR RESEARCH USE

APPROVED DATE: 3.11.2021

Manager: Hana Těšitelová