

CERTIFICATE OF ANALYSIS

Product:	Taq-Purple DNA polymeráza
Catalog No:	107, T108, T109
Lot No:	T107112023
Date of Expiry:	11/2023
Concentration:	1U/ μ l
Storage buffer:	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.
Supplied with:	10 x reaction buffer with $MgCl_2$ - 100 mM Tris-HCl, pH 8.8 (at 25°C), 500 mM KCl, 1% Triton X-100, 15 mM $MgCl_2$. or 10 x reaction buffer without $MgCl_2$ - 100 mM Tris-HCl, pH 8.8 (at 25°C), 500 mM KCl, 1% Triton X-100; + 25 mM $MgCl_2$ in separate tube
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:	39.5 μ l PCR H_2O 5 μ l 10 x reaction buffer with $MgCl_2$ (see above) 1 μ l 10 mM dNTP mix (10 mM for each, dATP, dCTP, dGTP, and dTTP) 0.5 μ l 50 μ M 5' primer (5'-ATGAACCCAGCCATCAGCG-3') 0.5 μ l 50 μ M 3' primer 5'-GGGTAAGGACCTTGATATAGG-3' 2.5 μ l Taq-Purple DNA polymeráza (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: 31. 10. 2021

Manager: Hana Těšitelová