

CERTIFICATE OF ANALYSIS

Product:	Taq DNA polymerase
Catalog No:	T032, T033, T034
Lot No:	T032122024
Date of Expiry:	12/2024
Concentration:	5U/ μ l
Storage buffer:	20 mM HEPES, pH 7.9, 100 mM KCl, 0.1 mM EDTA, 1 mM DTT, 0.5 mM PMSF, 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:	41.5 μ l PCR H ₂ O 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' 0.5 μ l Taq DNA polymerase 5U/ μ l (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. passed

FOR RESEARCH USE

APPROVED DATE: 02.05.2022

Manager: Hana Těšitelová