

CERTIFICATE OF ANALYSIS

Product:	Combi Taq DNA polymerase
Catalog No:	C205, C206, C207
Lot No:	C205122023
Date of Expiry:	12/2023
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:	10x PCR Blue Buffer: 750 mM Tris-HCl, pH 8.8 (at 25°C), 200 mM (NH ₄) ₂ SO ₄ , 1% Tween 20, 25 mM MgCl ₂ . or 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 .
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 10x PCR Blue Buffer with 25 mM MgCl ₂ 1 μ l 10 mM dNTP mix (10 mM for each, dATP, dCTP, dGTP, and d TTP) 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 Combi Taq DNA polymerase (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: 4.11.2021

Manager: Hana Těšitelová