

CERTIFICATE OF ANALYSIS

Product:	Q-Taq DNA polymeráza
Catalog No:	Q040, Q041, Q042
Lot No:	Q040122027
Date of Expiry:	12/2027
Concentration:	5U/μl
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 .
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 μl PCR H ₂ O 5 μl 10x PCR Blue Buffer s 25 mM MgCl ₂ (see above) 1 μl 10 mM dNTP mix (10 mM for each, dATP, dCTP, dGTP, and d TTP) 0.5 μl 50 μM 5' primer (5'-ATGAACCCAGCCATCAGCG-3') 0.5 μl 50 μM 3' primer 5'-GGGTAAGGACCTTGATATAGG-3' 0.5 μl Taq DNA polymerase 5U/ μl (2.5 U total) 1 μl 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: 05.12.2025

Manager: Hana Těšitelová