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# CERTIFICATE OF ANALYSIS

**Product:** Taq-Purple DNA polymeráza

**Catalog No:** 107, T108, T109

**Lot No:** T107122024

**Date of Expiry:** 12/2024

**Concentration:** 1U/µl

**Storage buffer:** 20 mM Tris-HCl (pH 8.0 at 25oC), 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 µl PCR $H_2O$
5 µl 10 x reaction buffer with $MgCl_2$ (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'
2.5 µl Taq-Purple DNA polymeráza (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:** 31.08. 2022

Manager: Hana Těšitelová