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CERTIFICATE OF ANALYSIS

Product: Taq DNA polymeráza 1.1

Catalog No: T112, T113, T114

Lot No: T112122024

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: 10x PCR Blue Buffer: 750 mM Tris-HCl, pH 8.8 (at 25°C), 200 mM $(NH_4)_2SO_4$, 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:
39.5 µl PCR H_2O
5 µl 10x PCR Blue Buffer with 25 mM $MgCl_2$
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 DNA polymeráza 1.1 (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: 14.07.2022

Manager: Hana Těšitelová