

CERTIFICATE OF ANALYSIS

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| Product: | Taq DNA polymerase Unis |
| Catalog No: | T037, T038, T039 |
| Lot No: | T037122024 |
| 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 . |
| 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 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 Taq DNA polymerase Unis 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 |

FOR RESEARCH USE

APPROVED DATE: 15. 09. 2022

Manager: Hana Těšitelová