

## CERTIFICATE OF ANALYSIS

|                             |  |
|-----------------------------|--|
| <b>Product:</b>             | Taq DNA polymeráza 1.1   |
| <b>Catalog No:</b>          | T112, T113, T114   |
| <b>Lot No:</b>              | T112122025   |
| <b>Date of Expiry:</b>      | 12/2025  |
| <b>Concentration:</b>       | 1U/ $\mu$ l  |
| <b>Storage buffer:</b>      | 20 mM Tris-HCl (pH 8.0 at 25°C), 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.  |
| <b>Supplied with:</b>       | 10x PCR Blue Buffer: 750 mM Tris-HCl, pH 8.8 (at 25°C), 200 mM $(\text{NH}_4)_2\text{SO}_4$ , 1% Tween 20, 25 mM $\text{MgCl}_2$ .   |
| <b>Storage temperature:</b> | -16 to -25 °C  |
| <b>Purity:</b>              | The enzyme was analyzed by SDS-PAGE and single band of ~94 kDa was observed  |
| <b>Functional Test:</b>     | The Lot has been tested for the ability to amplify a fragment of genomic DNA using the following conditions:   |
| <b>Test conditions:</b>     | 39.5 $\mu$ l PCR H <sub>2</sub> O<br>5 $\mu$ l 10x PCR Blue Buffer with 25 mM $\text{MgCl}_2$<br>1 $\mu$ l 10 mM dNTP mix (10 mM for each, dATP, dCTP, dGTP, and d TTP)<br>0.5 $\mu$ l 50 $\mu$ M 5' primer (5'-ATGAACCCAGCCATCAGCG-3')<br>0.5 $\mu$ l 50 $\mu$ M 3' primer (5'-GGGTAAGGACCTTGATATAGG-3')<br>2.5 $\mu$ l Taq DNA polymeráza 1.1 (2.5 U total)<br>1 $\mu$ l DNA containing 80 ng of mouse genomic (tail) DNA. |
| <b>Cycling conditions:</b>  | 95°C, 2 min initial denaturation, followed by 40 cycles of<br>94°C, 15 s (denaturation)<br>54°C, 15 s (annealing)<br>72°C, 60 s (extension)  |
| <b>Result:</b>              | As expected, electrophoresis of the PCR product on agarose gel revealed one band of 864 bp   |

FOR RESEARCH USE

APPROVED DATE: 20.02.2024

Manager: Hana Těšitelová