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CERTIFICATE OF ANALYSIS

Product Name: PCR dNTP mix

Catalog Number: P041, P141, P142

Lot Number: P041122027

Expiry Date: 12/2027

Composition: PCR dNTP mix is a water solution containing ultrapure mixture of each of the four dNTPs

(dATP, dCTP, dGTP, dTTP), pH 7.5.

Supplied Form: 0.5 ml plastic tube containing 100 μl PCR dNTP mix

Storage Conditions: Store at -20 ± 5 °C. Material can be thawed and refrozen repeatedly without loss of

performance.

Purity: 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 H₂O

5 μl 10x PCR Blue Buffer with 25 mM MgCl₂

1 μl 10 mM PCR dNTP mix (10 mM for each, dATP, dCTP, dGTP, and dTTP)

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 μl Taq DNA polymerase 5U/ μl (2.5 U total)

1 μl DNA containing 80 ng of mouse genomic (tail) DNA.

Cycling conditions: 94°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. passed

FOR RESEARCH USE APPROVED DATE: 04.08.2025

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