

CERTIFICATE OF ANALYSIS

Product Name:	PCR dNTP mix
Catalog Number:	P041, P141, P142
Lot Number:	P041122028
Expiry Date:	12/2028
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 H ₂ O 5 µl 10x PCR Blue Buffer with 25 mM MgCl ₂ 1 µl 10 mM PCR dNTP mix (10 mM for each, dATP, dCTP, dGTP, and dTTP) 0.5 µl 50 µM 5' primer (5'-ATGAACCCAGCCATCAGCG-3') 0.5 µl 50 µM 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: 04.06.2026

Manager: Hana Těšitelová