

CERTIFICATE OF ANALYSIS

Product Name:	PCR dNTP mix						
Catalog Number:	P041, P141, P142						
Lot Number:	P041062027						
Expiry Date:	06/2027						
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: <table><tr><td>Test conditions:</td><td>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 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.</td></tr><tr><td>Cycling conditions:</td><td>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)</td></tr><tr><td>Result:</td><td>As expected, electrophoresis of the PCR product on agarose gel revealed one band of 864 bp. passed</td></tr></table>	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
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: 04.02.2025

Manager: Hana Těšitelová