

CERTIFICATE OF ANALYSIS

Product:	PPP Master Mix without MgCl ₂
Catalog No:	P134, P135, P136, P136xl
Lot No:	P134062023
Date of Expiry:	06/2023
Composition:	2x concentrated PPP Master Mix without MgCl ₂ contains: 150 mM Tris-HCl, pH 8.8 (25°C), 40 mM (NH ₄) ₂ SO ₄ , 0.02% Tween 20, 400 μM dATP, 400 μM dCTP, 400 μM dGTP, 400 μM dTTP, 100 U/ml Taq DNA polymerase, dye, stabilizers and additives.
Supplied with:	PCR Ultra H ₂ O (Cat. No. P040). 25 mM MgCl ₂ (Cat. No. T030).
Storage temperature:	For short terms (days) at 4°C ± 3°C. For long terms at -20 ± 5°C. Material can be repeatedly defrosted.
Purity:	Purity of Taq DNA polymerase is verified by SDS PAGE, only one band of 94 kDa is observed in Coomassie blue stained gel. Material is free of nucleases.
Functional Test:	The lot has been tested for the ability to amplify a fragment of genomic DNA using the following conditions:

Test conditions:

Volume*	Reagent	Final concentration
12.5 μl	PPP Master Mix without MgCl ₂	1x PPP Master Mix without MgCl ₂ (75 mM Tris-HCl, pH 8.8 (at 25°C), 20 mM (NH ₄) ₂ SO ₄ , 0.01% Tween 20, 200 μM dATP, 200 μM dCTP, 200 μM dGTP, 200 μM dTTP, 2.5 U Taq DNA polymerase, stabilizers and additives)
2.5 μl	25 mM MgCl ₂	2.5 mM MgCl ₂
0.5 μl	Forward primer	50 μM 5' primer 5'-ATGAACCCAGCCATCAGCG-3'
0.5 μl	Reverse primer	50 μM 3' primer 5'-GGGTAAGGACCTTGATATAGG-3'
1 μl	Template DNA	containing 80 ng of mouse genomic DNA
8 μl	PCR Ultra H ₂ O	to a final volume 25 μl

Cycling conditions:

	Temperature	Time	Number of cycles
Initial denaturation	94°C	1 min	1
Denaturation	94°C	15 s	30
Annealing of primers	55°C	15 s	
Extension	72°C	1 min	
Final extension	72°C	7 min	1
Cooling	22°C		

Result: As expected, electrophoresis of the PCR product on agarose gel revealed one band of 864 bp

FOR RESEARCH USE

APPROVED DATE: 10.07.2021

Manager: Hana Těšitelová