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## New England Biolabs Certificate of Analysis

Product Name: PreCR® Repair Mix

Catalog Number: M0309L
Packaging Lot Number: 10063149
Expiration Date: 10/2021
Storage Temperature: -20°C
Storage Conditions: Proprietary

NEW ENGLAND

Specification Version: PS-M0309S/L v1.0

PreCR® Repair Mix Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
S1284AVIAL	L1 Primer Mix	10050350	Pass	
N3017AVIAL	UV DNA	10050349	Pass	
M0309LVIAL	PreCR® Repair Mix	10057760	Pass	
B9007SVIAL	β-Nicotinamide adenine dinucleotide (NAD+)	10060529	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10041932	Pass	
B9000SVIAL	BSA, Molecular Biology Grade	10057616	Pass	

Assay Name/Specification	Lot # 10063149
Functional Testing (Oligonucleotide Cleavage - 8-oxo-guanine) A 10 µl reaction in ThermoPol® Reaction Buffer containing 2.5 pmol of annealed oligo containing 8-oxo-guanine as the non-standard base and 1 µl of the PreCR® Repair Mix incubated for 1 hour at 37°C resulted in >70% cleavage as determined by polyacrylamide gel electrophoresis	Pass
Functional Testing (Oligonucleotide Cleavage - Thymine Glycol) A 10 µl reaction in ThermoPol® Reaction Buffer containing 2.5 pmol of annealed oligo containing thymine glycol as the non-standard base and 1 µl of the PreCR® Repair Mix incubated for 20 minutes at 37°C resulted in >70% cleavage as determined by polyacrylamide gel electrophoresis	Pass
Functional Testing (Oligonucleotide Cleavage - Uracil) A 10 µl reaction in ThermoPol® Reaction Buffer containing 2.5 pmol of annealed oligo containing uracil as the non-standard base and 1 µl of the PreCR® Repair Mix incubated for 10 minutes at 37°C resulted in >70% cleavage as determined by polyacrylamide gel electrophoresis	Pass
PCR Amplification (1 kb, PreCR®)	Pass



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Assay Name/Specification	Lot # 10063149
A 48 µl reaction in ThermoPol® Reaction Buffer containing 1.5 ng of UV damaged	
Lambda DNA, 100 μM dNTPs, 500 μM NAD+ and 1 μI of the PreCR® Repair Mix was	
incubated for 15 minutes at 37°C. Addition of 100 µM dNTPs, 0.4 µM L1 primer mix and	
2.5 units of Taq DNA Polymerase followed by 25 cycles of PCR resulted in the	
expected 1 kb specific product.	

This product has been tested and shown to be in compliance with all specifications.

Ben Penta

Production Scientist

Bu Rear

NEW ENGLAND

04 Nov 2019

Michael Tonello

Packaging Quality Control Inspector

16 Jan 2020

