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## New England Biolabs Certificate of Analysis

Product Name: PreCR® Repair Mix

Catalog Number: M0309S

Packaging Lot Number: 10149353

Expiration Date: 04/2023

Storage Temperature: -20°C

Storage Conditions: Proprietary

Specification Version: PS-M0309S/L v2.0

PreCR® Repair Mix Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
S1284AVIAL	L1 Primer Mix	10136032	Pass	
N3017AVIAL	UV DNA	10115744	Pass	
M0309SVIAL	PreCR® Repair Mix	10149352	Pass	
B9007SVIAL	β-Nicotinamide adenine dinucleotide (NAD+)	10140406	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10143500	Pass	

Assay Name/Specification	Lot # 10149353
PCR Amplification (1 kb, PreCR®) 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 μl 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.	Pass
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 - 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
Functional Testing (Oligonucleotide Cleavage - Thymine Glycol)	Pass



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Assay Name/Specification	Lot # 10149353
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	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Lauren Higgins Production Scientist 11 May 2022 Erin Varney

Packaging Quality Control Inspector

11 May 2022



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