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New England Biolabs Certificate of Analysis

Product Name: PreCR® Repair Mix

Catalog Number: M0309S
Packaging Lot Number: 10136031
Expiration Date: 02/2023
Storage Temperature: -20°C
Storage Conditions: Proprietary

Specification Version: PS-M0309S/L v2.0

PreCR® Repair Mix Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
S1284AVIAL	L1 Primer Mix	10100439	Pass	
N3017AVIAL	UV DNA	10115744	Pass	
M0309SVIAL	PreCR® Repair Mix	10136029	Pass	
B9007SVIAL	β-Nicotinamide adenine dinucleotide (NAD+)	10140406	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10125244	Pass	

Assay Name/Specification	Lot # 10136031
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 - 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) 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 - 8-oxo-guanine)	Pass



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Assay Name/Specification	Lot # 10136031
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	

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 10 Feb 2022

polyacrylamide gel electrophoresis

Michael Tonello

Packaging Quality Control Inspector

10 Feb 2022