

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: PreCR® Repair Mix

Catalog Number: M0309L
Packaging Lot Number: 10083608
Expiration Date: 09/2021
Storage Temperature: -20°C
Storage Conditions: Proprietary

NEW ENGLAND BioLabs inc.

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	10080831	Pass	
N3017AVIAL	UV DNA	10080832	Pass	
M0309LVIAL	PreCR® Repair Mix	10083606	Pass	
B9007SVIAL	β-Nicotinamide adenine dinucleotide (NAD+)	10060529	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10072023	Pass	
B9000SVIAL	BSA, Molecular Biology Grade	10082650	Pass	

Assay Name/Specification	Lot # 10083608
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



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Assay Name/Specification	Lot # 10083608
Functional Testing (Oligonucleotide Cleavage - 8-oxo-guanine)	Pass
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	

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** 05 Oct 2020

Lauren Higgins

Josh Hersey

Packaging Quality Control Inspector 05 Oct 2020

