

New England Biolabs Certificate of Analysis

Product Name: PreCR[®] Repair Mix
Catalog Number: M0309S
Packaging Lot Number: 10191255
Expiration Date: 06/2024
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	10176792	Pass
N3017AVIAL	UV DNA	10168779	Pass
M0309SVIAL	PreCR [®] Repair Mix	10191253	Pass
B9007SVIAL	β-Nicotinamide adenine dinucleotide (NAD ⁺)	10187354	Pass
B9004SVIAL	ThermoPol [®] Reaction Buffer Pack	10187437	Pass

Assay Name/Specification	Lot # 10191255
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[®]) A 48 µl reaction in ThermoPol [®] Reaction Buffer containing 1.5 ng of UV damaged	Pass

Assay Name/Specification	Lot # 10191255
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.	

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

Lauren Sears Higgins
Production Scientist
05 Jun 2023

Josh Hersey

Josh Hersey
Packaging Quality Control Inspector
08 Jun 2023