

New England Biolabs Certificate of Analysis

Product Name: PreCR[®] Repair Mix
Catalog Number: M0309L
Packaging Lot Number: 10069695
Expiration Date: 10/2021
Storage Temperature: -20°C
Storage Conditions: Proprietary
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	10067018	Pass
B9000SVIAL	BSA, Molecular Biology Grade	10057616	Pass

Assay Name/Specification	Lot # 10069695
<p>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.</p>	Pass
<p>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</p>	Pass
<p>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</p>	Pass

Assay Name/Specification	Lot # 10069695
<p>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</p>	<p>Pass</p>

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



Ben Penta
Production Scientist
04 Nov 2019



Josh Hersey
Packaging Quality Control Inspector
20 Mar 2020