

New England Biolabs Certificate of Analysis

Product Name: PreCR[®] Repair Mix
 Catalog Number: M0309S
 Packaging Lot Number: 10060527
 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 | 10040053 | Pass |
| N3017AVIAL | UV DNA | 10040051 | Pass |
| M0309SVIAL | PreCR [®] Repair Mix | 10057761 | Pass |
| B9007SVIAL | β-Nicotinamide adenine dinucleotide (NAD ⁺) | 10060529 | Pass |
| B9004SVIAL | ThermoPol [®] Reaction Buffer Pack | 10041932 | Pass |
| B9000SVIAL | BSA, Molecular Biology Grade | 10057616 | Pass |

| Assay Name/Specification | Lot # 10060527 |
|---|----------------|
| 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[®]) | Pass |

| Assay Name/Specification | Lot # 10060527 |
|--|----------------|
| 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. | |

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



Ben Penta
Production Scientist
04 Nov 2019



Michael Tonello
Packaging Quality Control Inspector
18 Dec 2019