

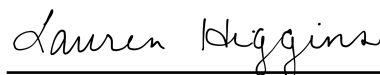
New England Biolabs Certificate of Analysis

Product Name: PreCR[®] Repair Mix
 Catalog #: M0309S/L
 Concentration: 1 reaction/μL
 Lot #: 0141803
 Assay Date: 03/2018
 Expiration Date: 03/2020
 Storage Temp: -20°C
 Storage Conditions: Proprietary
 Specification Version: PS-M0309S/L v1.0
 Effective Date: 11 Jun 2018

Assay Name/Specification (minimum release criteria)	Lot #0141803
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 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



Authorized by
Derek Robinson
11 Jun 2018



Inspected by
Lauren Higgins
01 Mar 2018

