

New England Biolabs Product Specification

Product Name: PreCR[®] Repair Mix
Catalog #: M0309S/L
Concentration: 1 reaction/ μ L
Shelf Life: 12 months
Storage Temp: -20°C
Storage Conditions: Proprietary
Specification Version: PS-M0309S/L v2.0
Effective Date: 21 Sep 2020

Assay Name/Specification (minimum release criteria)

Functional Testing (Oligonucleotide Cleavage - 8-oxo-guanine) - A 10 μ l reaction in ThermoPol[®] Reaction Buffer containing 2.5 pmol of annealed oligo containing 8-oxo-guanine as the non-standard base and 1 μ l of the PreCR[®] Repair Mix incubated for 1 hour at 37°C resulted in >70% cleavage as determined by polyacrylamide gel electrophoresis

Functional Testing (Oligonucleotide Cleavage - Thymine Glycol) - A 10 μ l reaction in ThermoPol[®] Reaction Buffer containing 2.5 pmol of annealed oligo containing thymine glycol as the non-standard base and 1 μ l of the PreCR[®] Repair Mix incubated for 20 minutes at 37°C resulted in >70% cleavage as determined by polyacrylamide gel electrophoresis

Functional Testing (Oligonucleotide Cleavage - Uracil) - A 10 μ l reaction in ThermoPol[®] Reaction Buffer containing 2.5 pmol of annealed oligo containing uracil as the non-standard base and 1 μ l of the PreCR[®] Repair Mix incubated for 10 minutes at 37°C resulted in >70% cleavage as determined by polyacrylamide gel electrophoresis

PCR Amplification (1 kb, PreCR[®]) - A 48 μ l reaction in ThermoPol[®] Reaction Buffer containing 1.5 ng of UV damaged Lambda DNA, 100 μ M dNTPs, 500 μ M NAD⁺ and 1 μ l of the PreCR[®] Repair Mix was incubated for 15 minutes at 37°C. Addition of 100 μ M dNTPs, 0.4 μ M 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.

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Date 21 Sep 2020

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