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New England Biolabs Certificate of Analysis

Product Name: NEBNext® FFPE DNA Repair Mix

Catalog Number: M6630L
Lot Number: 10050874
Expiration Date: 07/2020
Storage Temperature: -20°C

Specification Version: PS-M6630S/L v2.0

NEBNext® FFPE DNA Repair Mix Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M6630LVIAL	NEBNext® FFPE DNA Repair Mix	10050875	Pass	
E6622AAVIAL	NEBNext® FFPE DNA Repair Buffer	10050876	Pass	

Assay Name/Specification	Lot # 10050874
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 NEBNext® FFPE DNA Repair Mix incubated for 20 minutes at 37°C resulted in >70% cleavage as determined by polyacrylamide gel electrophoresis.	Pass
PCR Amplification (1 kb) 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 NEBNext® FFPE DNA 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
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 NEBNext® FFPE DNA Repair Mix incubated for 1 hour at 37°C resulted in >70% cleavage as determined by polyacrylamide gel electrophoresis.	Pass
Functional Testing (FFPE Repair Mix) Pretreatment with NEBNext® FFPE DNA Repair Mix improves the quality of base calling, especially C & G for FFPE DNA, when compared to an untreated control as determined by sequencing on the Illumina® platform. NEBNext® FFPE DNA Repair Mix lowers the C:T (same as G:A) mutation for FFPE DNA, which is due to cytosine deamination to U, when compared to an untreated control as determined by sequencing on the Illumina®	Pass



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Assay Name/Specification	Lot # 10050874
platform.	
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 NEBNext® FFPE DNA Repair Mix incubated for 10 minutes at 37°C resulted in >70% cleavage as determined by polyacrylamide gel electrophoresis.	Pass

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

Christine Sumner Production Scientist

08 Oct 2019

Michael Tonello

Packaging Quality Control Inspector

08 Oct 2019

