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## New England Biolabs Certificate of Analysis

Product Name: NEBNext® FFPE DNA Repair Mix

Catalog Number: M6630S
Lot Number: 10051510
Expiration Date: 07/2020
Storage Temperature: -20°C

Specification Version: PS-M6630S/L v2.0

NEBNext® FFPE DNA Repair Mix Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M6630SVIAL	NEBNext® FFPE DNA Repair Mix	10050872	Pass	
E6622AVIAL	NEBNext® FFPE DNA Repair Buffer	10050873	Pass	

Assay Name/Specification	Lot # 10051510
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 - 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
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
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



M6630S / Lot: 10051510

Page 1 of 2

Assay Name/Specification	Lot # 10051510
Functional Testing (FFPE Repair Mix)	Pass
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® platform.	

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

Christine Sumner

Production Scientist 29 Jul 2019 Michael Tonello

Packaging Quality Control Inspector

29 Jul 2019

