NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name: *NEBNext® FFPE DNA Repair Mix*
Catalog Number: *M6630S*
Packaging Lot Number: *10058535*
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**
M6630SVIAL	NEBNext® FFPE DNA Repair Mix	10050872	**Pass**
E6622AVIAL	NEBNext® FFPE DNA Repair Buffer	10050873	**Pass**

Assay Name/Specification	Lot # 10058535
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**
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 - 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**

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Assay Name/Specification	Lot # 10058535
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 IIllumina® platform.	**Pass**

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

Christine Sumner
Production Scientist
28 Oct 2019

Jay Minichiello
Packaging Quality Control Inspector
28 Oct 2019