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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name:	NEBNext® FFPE DNA Repair Mix
Catalog Number:	M6630S
Packaging Lot Number:	10127357
Expiration Date:	12/2022
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	10127358	Pass	
E6622AVIAL	NEBNext® FFPE DNA Repair Buffer	10127359	Pass	

Assay Name/Specification	Lot # 10127357
<b>Functional Testing (Oligonucleotide Cleavage - Thymine Glycol)</b> 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
<b>Functional Testing (Oligonucleotide Cleavage - Uracil)</b> A 10 $\mu$ I reaction in ThermoPol® Reaction Buffer containing 2.5 pmol of annealed oligo containing uracil as the non-standard base and 1 $\mu$ I 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
<b>Functional Testing (Oligonucleotide Cleavage - 8-oxo-guanine)</b> A 10 $\mu$ l reaction in ThermoPol® Reaction Buffer containing 2.5 pmol of annealed oligo containing 8-oxo-guanine as the non-standard base and 1 $\mu$ l 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
<b>PCR Amplification (1 kb)</b> 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





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Assay Name/Specification	Lot # 10127357
<b>Functional Testing (FFPE Repair Mix)</b> 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	Pass
(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 IIIlumina® platform.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

motion for

Christine Sumner Production Scientist 21 Dec 2021

Houllo Michae

Michael Tonello Packaging Quality Control Inspector 29 Mar 2022

