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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:	M6630L
Packaging Lot Number:	10072613
Expiration Date:	02/2021
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	10069509	Pass	
E6622AAVIAL	NEBNext® FFPE DNA Repair Buffer	10069510	Pass	

Assay Name/Specification	Lot # 10072613
<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
Functional Testing (Oligonucleotide Cleavage - Uracil) 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 - 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 - 8-oxo-guanine)</b> 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 # 10072613
<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 (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

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

Christin Jun

Christine Sumner Production Scientist 29 Apr 2020

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Minichiello Packaging Quality Control Inspector 29 Apr 2020

