

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: 10165221
Expiration Date: 10/2023
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	10165222	Pass	
E6622AVIAL	NEBNext® FFPE DNA Repair Buffer	10165223	Pass	

Assay Name/Specification	Lot # 10165221
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® platform.	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	Pass



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Assay Name/Specification	Lot # 10165221
polyacrylamide gel electrophoresis.	
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.

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.

Christine Sumner Production Scientist

14 Nov 2022

Michael Tonello

Packaging Quality Control Inspector

19 Jan 2023



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