

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: 10231276
Expiration Date: 03/2025
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	10231277	Pass	
E6622AAVIAL	NEBNext® FFPE DNA Repair Buffer	10231278	Pass	

Assay Name/Specification	Lot # 10231276
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
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
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 - 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



M6630L / Lot: 10231276

Page 1 of 2



Assay Name/Specification	Lot # 10231276
PCR Amplification (1 kb) A 48 µl reaction in ThermoPol® Reaction Buffer containing 1.5 ng of UV damaged	Pass
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.	

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

23 Apr 2024

Michael Tonello

Packaging Quality Control Inspector

23 Apr 2024



M6630L / Lot: 10231276

Page 2 of 2