NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name:	*Exonuclease III (E.coli)*
Catalog Number:	*M0206L*
Concentration:	*100,000 U/ml*
Unit Definition:	*One unit is defined as the amount of enzyme required to produce 1 nmol of acid-soluble total nucleotide in a total reaction volume of 50 µl in 30 minutes at 37°C in 1X NEBuffer 1 with 0.15 mM sonicated duplex [3H]-DNA.*
Packaging Lot Number:	*10115684*
Expiration Date:	*08/2023*
Storage Temperature:	*-20°C*
Storage Conditions:	*200 mM KCl, 5 mM KPO4 , 0.05 mM EDTA, 5 mM βME, 50 % Glycerol, 200 µg/ml BSA, (pH 6.5 @ 25°C)*
Specification Version:	*PS-M0206S/L v1.0*

Exonuclease III (E.coli) Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
M0206LVIAL	Exonuclease III (E.coli)	10115683	**Pass**
B7001SVIAL	NEBuffer™ 1	10111607	**Pass**

Assay Name/Specification	**Lot # 10115684**
qPCR DNA Contamination (E. coli Genomic) A minimum of 100 units of Exonuclease III (E. coli) is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	**Pass**
Protein Purity Assay (SDS-PAGE) Exonuclease III (E. coli) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	**Pass**
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 300 units of Exonuclease III (E. coli) incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	**Pass**

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

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27 Oct 2021

Michael Tonello
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27 Oct 2021