

## New England Biolabs Certificate of Analysis

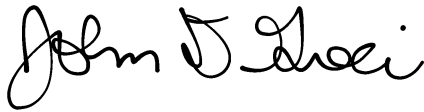
**Product Name:** Exonuclease III (*E.coli*)  
**Catalog Number:** M0206S  
**Concentration:** 100,000 U/ml  
**Unit Definition:** One unit is defined as the amount of enzyme required to produce 1 nmol of acid-soluble total nucleotide in a total reaction volume of 50 µl in 30 minutes at 37°C in 1X NEBuffer 1 with 0.15 mM sonicated duplex [3H]-DNA.  
**Packaging Lot Number:** 10156733  
**Expiration Date:** 06/2024  
**Storage Temperature:** -20°C  
**Storage Conditions:** 200 mM KCl, 5 mM KPO<sub>4</sub>, 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 ( <i>E.coli</i> ) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0206SVIAL	Exonuclease III ( <i>E.coli</i> )	10150781	Pass
B7001SVIAL	NEBuffer™ 1	10150375	Pass

Assay Name/Specification	Lot # 10156733
<b>Protein Purity Assay (SDS-PAGE)</b> Exonuclease III ( <i>E. coli</i> ) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
<b>qPCR DNA Contamination (<i>E. coli</i> Genomic)</b> A minimum of 100 units of Exonuclease III ( <i>E. coli</i> ) is screened for the presence of <i>E. coli</i> genomic DNA using SYBR® Green qPCR with primers specific for the <i>E. coli</i> 16S rRNA locus. Results are quantified using a standard curve generated from purified <i>E. coli</i> genomic DNA. The measured level of <i>E. coli</i> genomic DNA contamination is ≤ 1 <i>E. coli</i> genome.	Pass
<b>Endonuclease Activity (Nicking)</b> A 50 µl reaction in NEBuffer 1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 300 units of Exonuclease III ( <i>E. coli</i> ) 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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05 Jul 2022



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Michael Tonello  
Packaging Quality Control Inspector  
05 Jul 2022