

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: 10075386
Expiration Date: 02/2022
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)	10063239	Pass
B7001SVIAL	NEBuffer™ 1	10064408	Pass

Assay Name/Specification	Lot # 10075386
<p>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.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) Exonuclease III (E. coli) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	Pass
<p>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.</p>	Pass

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

John D. Greci

John Greci
Production Scientist
16 Jul 2020

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
16 Jul 2020