

New England Biolabs Certificate of Analysis

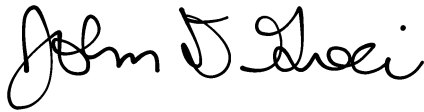
Product Name: Exonuclease III (E.coli)
Catalog Number: M0206L
Concentration: 100,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to produce 1 nmol of acid-soluble total nucleotide in a total reaction volume of 50 µl in 30 minutes at 37°C in 1X NEBuffer 1 with 0.15 mM sonicated duplex [3H]-DNA.
Packaging Lot Number: 10089249
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 | 10091038 | Pass |

| Assay Name/Specification | Lot # 10089249 |
|--|----------------|
| <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.

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.



John Greci
Production Scientist
22 Dec 2020



Michael Tonello
Packaging Quality Control Inspector
22 Dec 2020