

be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

| Product Name: | Endonuclease III (Nth) |
|------------------------|--|
| Catalog Number: | M0268S |
| Concentration: | 10,000 U/ml |
| Unit Definition: | One unit is defined as the amount of enzyme required to cleave 1 pmol of a 34 mer oligonucleotide duplex containing a single AP site in a total reaction volume of 10 μ l in 1 hour at 37°C in 1X Endonuclease III Reaction Buffer containing 10 pmol of fluorescently labeled oligonucleotide duplex. |
| Packaging Lot Number: | 10133535 |
| Expiration Date: | 12/2023 |
| Storage Temperature: | -20°C |
| Storage Conditions: | 10 mM Tris-HCl, 250 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, 200 μg/ml BSA, (рН 7.4 @ 25°С) |
| Specification Version: | PS-M0268S v2.0 |

| Endonuclease III (Nth) Component List | | | | |
|---------------------------------------|--|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| M0268SVIAL | Endonuclease III (Nth) | 10133534 | Pass | |
| B0268SVIAL | Endonuclease III (Nth) Reaction Buffer | 10097292 | Pass | |

| Assay Name/Specification | Lot # 10133535 |
|---|----------------|
| Protein Purity Assay (SDS-PAGE) Endonuclease III (Nth) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection. | Pass |
| qPCR DNA Contamination (E. coli Genomic) A minimum of 1 μ l of Endonuclease III (Nth) 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 \leq 1 E. coli genome. | Pass |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 1 containing 1 µg of Lambda-HindIII DNA and a minimum of 30 units of Endonuclease III (Nth) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | Pass |





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| Assay Name/Specification | Lot # 10133535 |
|---|----------------|
| Exonuclease Activity (Radioactivity Release) | Pass |
| A 50 μ I reaction in NEBuffer 1 containing 1 μ g of a mixture of single and | |
| double-stranded [³ H] E. coli DNA and a minimum of 10 units of Endonuclease III | |
| (Nth) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity. | |

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.

Lauren Diggins

Lauren Higgins Production Scientist 11 Jan 2022

m. M. Michae

Michael Tonello Packaging Quality Control Inspector 11 Jan 2022