

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 µl in 1 hour at 37°C in 1X

Endonuclease III Reaction Buffer containing 10 pmol of fluorescently

labeled oligonucleotide duplex.

Packaging Lot Number: 10223538
Expiration Date: 12/2025
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, (pH 7.4 @ 25°C)

Specification Version: PS-M0268S v2.0

Endonuclease III (Nth) Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0268SVIAL	Endonuclease III (Nth)	10221817	Pass	
B0268SVIAL	Endonuclease III (Nth) Reaction Buffer	10171167	Pass	

Assay Name/Specification	Lot # 10223538
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 1 containing 1 µg of a mixture of single and double-stranded [ ³H] 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.	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
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)	Pass



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Assay Name/Specification	Lot # 10223538
A minimum of 1 µI 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 ≤ 1 E. coli genome.	

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

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Ja/mile Souza

Production Scientist

2**₽ J**an 2024

Michael Tonello

Packaging Quality Control Inspector

23 Jan 2024

