

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:	10200387
Expiration Date:	12/2024
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0268SVIAL	Endonuclease III (Nth)	10171165	Pass	
B0268SVIAL	Endonuclease III (Nth) Reaction Buffer	10171167	Pass	

Assay Name/Specification	Lot # 10200387
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 1 containing 1 µg 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.	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 # 10200387
A minimum of 1 μ I 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.	

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.

dauren Diggins

Lauren Sears Higgins Production Scientist 01 Dec 2022

Josh Hersey

Packaging Quality Control Inspector 27 Jul 2023

