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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: 10239506
Expiration Date: 03/2026
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)	10239505	Pass	
B0268SVIAL	Endonuclease III (Nth) Reaction Buffer	10171167	Pass	

Assay Name/Specification	Lot # 10239506
Exonuclease Activity (Radioactivity Release)	Pass
λ 50 μl reaction in NEBuffer 1 containing 1 μg of a mixture of single and	
louble-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.	
Non-Specific DNase Activity (16 Hour)	Pass
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.	
Protein Purity Assay (SDS-PAGE)	Pass
Endonuclease III (Nth) is ≥ 95% pure as determined by SDS-PAGE analysis using	
Coomassie Blue detection.	
qPCR DNA Contamination (E. coli Genomic)	Pass



M0268S / Lot: 10239506

Page 1 of 2



Assay Name/Specification	Lot # 10239506
A minimum of 1 µl 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.

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 Sears Higgins **Production Scientist**

dauren Higgins

04 May 2023

Michael Tonello

Packaging Quality Control Inspector 03 Jun 2024

