NEW ENGLAND BioLabs Inc.
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240 County Road
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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:	*10150676*
Expiration Date:	*05/2024*
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)	10150677	**Pass**
B0268SVIAL	Endonuclease III (Nth) Reaction Buffer	10150678	**Pass**

Assay Name/Specification	**Lot # 10150676**
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 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.	**Pass**
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 37ºC releases <0.1% of the total radioactivity.	**Pass**

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Assay Name/Specification	Lot # 10150676
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 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**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.

Lauren Higgins
Production Scientist
12 May 2022

Erin Varney
Packaging Quality Control Inspector
12 May 2022