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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: 10167462
Expiration Date: 10/2024
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)	10167461	Pass
B0268SVIAL	Endonuclease III (Nth) Reaction Buffer	10150678	Pass

Assay Name/Specification	Lot # 10167462
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
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	Pass



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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**

Lauren Higgins

Coomassie Blue detection.

19 Oct 2022

Josh Hersey

Packaging Quality Control Inspector

20 Oct 2022

