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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.

Lot Number: 10031989
Expiration Date: 12/2020
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/L v1.0

Endonuclease III (Nth) Component List			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
M0268SVIAL	Endonuclease III (Nth)	10031988	Pass
B0268SVIAL	Endonuclease III (Nth) Reaction Buffer	0011807	Pass

Assay Name/Specification	Lot # 10031989
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
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
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 10 units of Endonuclease III (Nth) incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass

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



M0268S / Lot: 10031989 Page 1 of 2



Lauren Sears Higgins Production Scientist 18 Dec 2018 7 0 0

Michael Tonello Packaging Quality Control Inspector 19 Dec 2018