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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: 10047988
Expiration Date: 06/2021
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			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0268SVIAL	Endonuclease III (Nth)	10047392	Pass
B0268SVIAL	Endonuclease III (Nth) Reaction Buffer	0011807	Pass

Assay Name/Specification	Lot # 10047988
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 1 containing 1 µg of supercoiled PhiX174 DNA and a	Pass
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.	
Exonuclease Activity (Radioactivity Release)	Pass
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.	
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.	

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



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Lauren Sears Higgins Production Scientist 09 Jul 2019 Michael Tonello

Packaging Quality Control Inspector

09 Jul 2019