

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name: NmeAIII
Catalog Number: R0711S
Concentration: 2,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of PhiX174 RF I DNA in 1 hour at 37°C in a total reaction volume of

50 μl.

Lot Number: 10025252
Expiration Date: 10/2020
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 500 μg/ml BSA

Specification Version: PS-R0711S/L v2.0

NmeAllI Component List			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
R0711SVIAL	NmeAIII	10025251	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10018391	Pass
B7204SVIAL	CutSmart® Buffer	10018444	Pass

Assay Name/Specification	Lot # 10025252
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	
double-stranded [ 3H] E. coli DNA and a minimum of 10 units of NmeAIII incubated for	
4 hours at 37°C releases <0.1% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 5-fold over-digestion of PhiX174 RF I DNA with NmeAIII, >95% of the DNA	
fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated	
fragments, <5% can be recut with NmeAIII.	

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



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Tony Spear-Alfonso Production Scientist 21 Aug 2018

Michael Tonello

Packaging Quality Control Inspector

12 Oct 2018

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