

*be* INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	10053313
Expiration Date:	08/2021
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0711SVIAL	NmeAIII	10053314	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10049759	Pass	
B7204SVIAL	CutSmart® Buffer	10046087	Pass	

Assay Name/Specification	Lot # 10053313
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart <sup>™</sup> Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] 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.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> 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.	Pass

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





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Diffeen Duquette

Production Scientist 09 Aug 2019

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An Minichiello Packaging Quality Control Inspector 22 Aug 2019

