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## 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.

Packaging Lot Number: 10161047
Expiration Date: 08/2024
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 0.32 mM

S-adenosylmethionine (SAM), 50% Glycerol, 500 μg/ml BSA (pH 7.4 @

25°C)

Specification Version: PS-R0711S v3.0

NmeAllI Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0711SVIAL	NmeAIII	10161046	Pass	
B6004SVIAL	rCutSmart™ Buffer	10156434	Pass	

Assay Name/Specification	Lot # 10161047
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.	
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.	

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.



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YunJie Sun Production Scientist 30 Aug 2022

Michael Tonello

Packaging Quality Control Inspector

16 Sep 2022

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