

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: 10215051
Expiration Date: 10/2025
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

NmeAIII Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0711SVIAL	NmeAIII	10210753	Pass
B6004SVIAL	rCutSmart™ Buffer	10202502	Pass

Assay Name/Specification	Lot # 10215051
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ 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
Ligation and Recutting (Terminal Integrity) 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.

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.


YunJie Sun
Production Scientist
23 Oct 2023


Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
07 Nov 2023