

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: 10011902
Expiration Date: 06/2020
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

| NmeAIII Component List | | | |
|------------------------|----------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| R0711SVIAL | NmeAIII | 10011903 | Pass |
| B9003SVIAL | S-adenosylmethionine (SAM) | 10008707 | Pass |
| B7204SVIAL | CutSmart® Buffer | 3091805 | Pass |

| Assay Name/Specification | Lot # 10011902 |
|--|----------------|
| 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.

Ben Penta

Ben Penta
Production Scientist
06 Jun 2018



Josh Hersey
Packaging Quality Control Inspector
15 Jun 2018