

New England Biolabs Certificate of Analysis

Product Name: *S-adenosylmethionine (SAM)*
 Catalog Number: *B9003S*
 Concentration: *32 mM*
 Packaging Lot Number: *10079762*
 Expiration Date: *06/2021*
 Storage Temperature: *-20°C*
 Specification Version: *PS-B9003S v1.0*
 Composition (1X): *0.005 M Sulfuric Acid, 10 % Ethanol*

| S-adenosylmethionine (SAM) Component List | | | |
|---|----------------------------|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| B9003SVIAL | S-adenosylmethionine (SAM) | 10079763 | Pass |

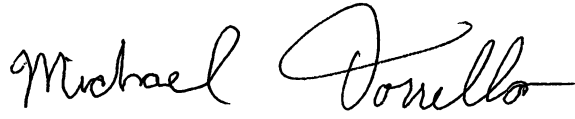
| Assay Name/Specification | Lot # 10079762 |
|--|----------------|
| <p>Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 2 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 5 µl of S-adenosylmethionine (SAM) incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.</p> | Pass |
| <p>Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of PhiX174-HaeIII DNA and a minimum of 5 µl of S-adenosylmethionine (SAM) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p> | Pass |
| <p>Restriction Digest (CpG Resistant, SAM) A 20 µl reaction in 1X NEBuffer 2 containing 1 µg of Lambda DNA, 1 unit of M. SssI (CpG Methyltransferase), and 160 µM S-adenosylmethionine (SAM) is incubated for 1 hour at 37°C. The resulting DNA is resistant to digestion with BstUI as determined by agarose gel electrophoresis.</p> | 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.



Michael Dalton
Production Scientist
17 Sep 2020



Michael Tonello
Packaging Quality Control Inspector
17 Sep 2020