

## New England Biolabs Certificate of Analysis

**Product Name:** *S-adenosylmethionine (SAM)*  
**Catalog Number:** *B9003S*  
**Concentration:** *32 mM*  
**Packaging Lot Number:** *10178443*  
**Expiration Date:** *06/2023*  
**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)	10157973	Pass

Assay Name/Specification	Lot # 10178443
<b>Restriction Digest (CpG Resistant, SAM)</b> 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.	Pass
<b>Non-Specific DNase Activity (16 Hour)</b> 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.	Pass
<b>Endonuclease Activity (Nicking)</b> 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.	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](http://www.neb.com/trademarks) for additional information.

*Nancy Considine*

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Nancy Considine  
Production Scientist  
07 Oct 2022

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
26 Jan 2023