

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name:	S-adenosylmethionine (SAM)
Catalog Number:	B9003S
Concentration:	32 mM
Packaging Lot Number:	10242051
Expiration Date:	03/2026
Storage Temperature:	-20°C
Specification Version:	PS-B9003S v3.0
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)	10233985	Pass	

Assay Name/Specification	Lot # 10242051
<b>Endonuclease Activity (Nicking)</b> A 50 $\mu$ I reaction in NEBuffer 2 containing 1 $\mu$ g of supercoiled PhiX174 DNA and a minimum of 5 $\mu$ I 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
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 $\mu$ I reaction in NEBuffer 2 containing 1 $\mu$ g of PhiX174-HaeIII DNA and a minimum of 5 $\mu$ I 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>RNase Activity (Extended Digestion)</b> A 10 $\mu$ I reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 $\mu$ I of S-adenosylmethionine (SAM) is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
<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. Sssl (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

This product has been tested and shown to be in compliance with all specifications.





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Scott Schallehn Production Scientist 26 Mar 2024

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Talia Monkiewicz Packaging Quality Control Inspector 31 May 2024

