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New England Biolabs Certificate of Analysis

Product Name: S-adenosylmethionine (SAM)

Catalog Number: B9003S
Concentration: 32 mM
Packaging Lot Number: 10198029
Expiration Date: 03/2024
Storage Temperature: -20°C

Specification Version: PS-B9003S v2.0

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)	10193027	Pass	

Assay Name/Specification	Lot # 10198029
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.	Pass
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.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl 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
Restriction Digest (CpG Resistant, SAM) 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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Namy Graden

Nancy Considine Production Scientist 11 Jul 2023

NEW ENGLAND

Josh Hersey

Packaging Quality Control Inspector

27 Jul 2023



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