

New England Biolabs Certificate of Analysis

Product Name: CpG Methyltransferase (M.SssI)
Catalog Number: M0226S
Concentration: 4,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to protect 1 µg of Lambda DNA in a total reaction volume of 20 µl in 1 hour at 37°C against cleavage by BstUI restriction endonuclease.
Packaging Lot Number: 10252416
Expiration Date: 08/2025
Storage Temperature: -20°C
Storage Conditions: 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, 200 µg/ml BSA, (pH 7.4 @ 25°C)
Specification Version: PS-M0226S/L/V/X v2.0

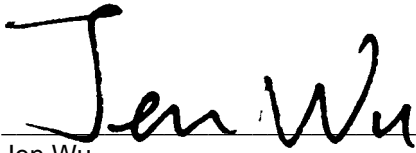
CpG Methyltransferase (M.SssI) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0226SVIAL	CpG Methyltransferase (M.SssI)	10252196	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10233985	Pass
B7002SVIAL	NEBuffer™ 2	10237091	Pass

Assay Name/Specification	Lot # 10252416
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 2 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 40 units of CpG Methyltransferase (M.SssI) incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 40 units of CpG Methyltransferase (M.SssI) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of Lambda DNA and a minimum of 40 units of CpG Methyltransferase (M.SssI) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation 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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Jen Wu
Production Scientist
30 Aug 2024



Josh Hersey
Packaging Quality Control Inspector
03 Sep 2024