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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: 10064152
Expiration Date: 11/2020
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 v1.0

CpG Methyltransferase (M.Sssl) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0226SVIAL	CpG Methyltransferase (M.SssI)	10059996	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10061033	Pass	
B7002SVIAL	NEBuffer™ 2	10061303	Pass	

Assay Name/Specification	Lot # 10064152
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.Sssl) 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 [³H] E. coli DNA and a minimum of 100 units of CpG Methyltransferase (M.SssI) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Functional Testing (Methyltransferase) A 20 μl reaction in NEBuffer 2 supplemented with 160 μM SAM containing 1 μg of Lambda DNA and 1 unit of CpG Methyltransferase (M.SssI) incubated for 1 hour at 37°C followed by heat inactivation results in ≥ 95% protection from digestion with 10 units of BstUI in NEBuffer 2 incubated at 60°C for 1 hour as determined by agarose	Pass



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

Tim Meixsell Production Scientist

electrophoresis.

14 Nov 2019

Michael Tonello

Packaging Quality Control Inspector

15 Jan 2020