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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.

Lot Number: 10026143
Expiration Date: 08/2019
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.SssI) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0226SVIAL	CpG Methyltransferase (M.SssI)	10014365	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10028001	Pass
B7002SVIAL	NEBuffer™ 2	10016623	Pass

Assay Name/Specification	Lot # 10026143
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.Sssl) 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



M0226S / Lot: 10026143

Page 1 of 2

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

Tony Spear-Alfonso Production Scientist

25 Jul 2018

Michael Tonello

Packaging Quality Control Inspector

19 Nov 2018

