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New England Biolabs Certificate of Analysis

Product Name: CpG Methyltransferase (M.SssI)

Catalog Number: M0226L
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: 10064783
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
M0226LVIAL	CpG Methyltransferase (M.SssI)	10059997	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10067102	Pass
B7002SVIAL	NEBuffer™ 2	10061303	Pass

Assay Name/Specification	Lot # 10064783
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 2 containing 1 μg of Lambda DNA and a minimum of 100 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
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 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.Sssl) incubated for 4 hours at 37°C releases <0.1% of the total	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

12 Mar 2020