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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: 10133505
Expiration Date: 11/2022
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)	10128954	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10131977	Pass	
B7002SVIAL	NEBuffer™ 2	10120519	Pass	

Assay Name/Specification	Lot # 10133505
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.Sssl) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
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 [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 radioactivity.	Pass



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

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Timothy Meixsell Production Scientist 27 Jan 2022

gel electrophoresis.

Michael Tonello Packaging Quality Control Inspector 27 Jan 2022

