

be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

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 BstUl restriction endonuclease.
Packaging Lot Number:	10056363
Expiration Date:	08/2020
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.SssI) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0226LVIAL	CpG Methyltransferase (M.Sssl)	10049706	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10055450	Pass	
B7002SVIAL	NEBuffer™ 2	10052180	Pass	

Assay Name/Specification	Lot # 10056363
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.Sssl) incubated for 1 hour at 37°C followed by heat inactivation results in \geq 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
Endonuclease Activity (Nicking) A 50 μ I reaction in NEBuffer 2 containing 1 μ g 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	Pass





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Assay Name/Specification	Lot # 10056363
electrophoresis.	
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 100 units of CpG Methyltransferase (M.SssI) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass

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

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Tim Meixsell Production Scientist 13 Aug 2019

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Michael Tonello Packaging Quality Control Inspector 07 Nov 2019

