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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:	M0226M
Concentration:	20,000 U/mI
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:	10140292
Expiration Date:	03/2023
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-M0226M v1.0

CpG Methyltransferase (M.Sssl) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0226MVIAL	CpG Methyltransferase (M.Sssl)	10140291	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10131977	Pass	
B7002SVIAL	NEBuffer™ 2	10111608	Pass	

Assay Name/Specification	Lot # 10140292
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
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
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





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Assay Name/Specification	Lot # 10140292
Functional Testing (Methyltransferase) A 20 μ I reaction in NEBuffer 2 supplemented with 160 μ M SAM containing 1 μ g of Lambda DNA and 1 unit of CpG Methyltransferase (M.SssI) 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

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

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Timothy Meixsell Production Scientist 09 Mar 2022

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Michael Tonello Packaging Quality Control Inspector 09 Mar 2022

