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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:	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 BstUl restriction endonuclease.
Packaging Lot Number:	10183395
Expiration Date:	02/2024
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.Sssl)	10176788	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10179342	Pass	
B7002SVIAL	NEBuffer™ 2	10173666	Pass	

Assay Name/Specification	Lot # 10183395
Endonuclease Activity (Nicking) A 50 μ l 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 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
Functional Testing (Methyltransferase) A 20 μ l 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	Pass





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Assay Name/Specification	Lot # 10183395
gel electrophoresis.	
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

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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Michael Tonello Packaging Quality Control Inspector 10 Apr 2023

