

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:	Mspl Methyltransferase
Catalog Number:	M0215S
Concentration:	5,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to protect 1 μg Lambda DNA in 1 hour at 37°C in a total reaction volume of 10 μl against cleavage by Mspl restriction endonuclease.
Packaging Lot Number:	10062678
Expiration Date:	07/2021
Storage Temperature:	-20°C
Storage Conditions:	50 mM Tris-HCl, 50 mM NaCl, 10 mM EDTA, 5 mM βME, 200 μg/ml BSA, 50% Glycerol, (pH 7.5 @ 25°C)
Specification Version:	PS-M0215S v1.0

Mspl Methyltransferase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0215SVIAL	Mspl Methyltransferase	10049710	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10070537	Pass	
B0215SVIAL	Mspl Methylase Reaction Buffer	10062679	Pass	

Assay Name/Specification	Lot # 10062678
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of Lambda-HindIII DNA and a minimum of 15 units of MspI Methyltransferase 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 10 μ I reaction in MspI Methyltransferase Reaction Buffer supplemented with 80 μ M SAM containing 1 μ g of Lambda DNA and 1 unit of MspI Methyltransferase incubated for 1 hour at 37°C followed by heat inactivation results in \geq 95% protection from digestion with 5 units of MspI in NEBuffer 2 with 10 mM MgCl2 incubated at 37°C for 30 minutes 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 15 units of MspI Methyltransferase incubated for 4 hours at 37°C releases <0.1% of the total	Pass





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Assay Name/Specification	Lot # 10062678
radioactivity.	

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

Timothy menpel

Timothy Meixsell Production Scientist 08 Apr 2020

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An Minichiello Packaging Quality Control Inspector 08 Apr 2020

