

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/mI
Unit Definition:	One unit is defined as the amount of enzyme required to protect 1 μ g Lambda DNA in 1 hour at 37°C in a total reaction volume of 10 μ l against cleavage by Mspl restriction endonuclease.
Lot Number:	10034570
Expiration Date:	10/2020
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	10022781	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10028001	Pass	
B0215SVIAL	MspI Methylase Reaction Buffer	10025988	Pass	

Assay Name/Specification	Lot # 10034570	
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 µl reaction in MspI Methyltransferase Reaction Buffer supplemented with 80 µM SAM containing 1 µg of Lambda DNA and 1 unit of MspI Methyltransferase incubated for 1 hour at 37°C followed by heat inactivation results in ≥ 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 μ I reaction in NEBuffer 2 containing 1 μ g 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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This product has been tested and shown to be in compliance with all specifications.

Imothy menpel

Tim Meixsell Production Scientist 03 Oct 2018

Michae m. N.

Michael Tonello Packaging Quality Control Inspector 16 Jan 2019

