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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: 10091744
Expiration Date: 09/2022
Storage Temperature: -20°C

Storage Conditions: 50 mM Tris-HCl, 50 mM NaCl, 10 mM EDTA, 5 mM \(\beta ME, 200 \) \(\mu g/ml \) 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	10080118	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10079763	Pass	
B0215SVIAL	Mspl Methylase Reaction Buffer	10062679	Pass	

Assay Name/Specification	Lot # 10091744
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in NEBuffer 2 containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 15 units of Mspl Methyltransferase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
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 Mspl 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 Mspl Methyltransferase Reaction Buffer supplemented with 80 μM SAM containing 1 μg of Lambda DNA and 1 unit of Mspl Methyltransferase incubated for 1 hour at 37°C followed by heat inactivation results in ≥ 95% protection from digestion with 5 units of Mspl in NEBuffer 2 with 10 mM MgCl2 incubated at 37°C for	Pass



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Assay Name/Specification		Lot # 10091744
	30 minutes as determined by agarose gel electrophoresis.	

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

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Timothy Meixsell **Production Scientist** 24 Nov 2020

NEW ENGLAND

Josh Hersey

Packaging Quality Control Inspector

24 Nov 2020

