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## New England Biolabs Certificate of Analysis

Product Name: Hpall Methyltransferase

Catalog Number: M0214S
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 1 hour at 37°C in a total reaction volume of 50 μl

against cleavage by Hpall restriction endonuclease.

Packaging Lot Number: 10168971
Expiration Date: 11/2023
Storage Temperature: -20°C

Storage Conditions: 150 mM NaCl, 50 mM Tris-HCl, 0.1 mM EDTA, 5 mM TCEP-HCl, 50 %

Glycerol, 200 μg/ml BSA, (pH 7.5 @ 25°C)

Specification Version: PS-M0214S/L v2.0

Hpall Methyltransferase Component List				
<b>NEB Part Number</b>	<b>Component Description</b>	Lot Number	Individual QC Result	
M0214SVIAL	Hpall Methyltransferase	10168984	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10157973	Pass	
B6004SVIAL	rCutSmart™ Buffer	10173160	Pass	

Assay Name/Specification	Lot # 10168971
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 40 units of Hpall Methyltransferase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Methylase Activity (dam Methylase) A 20 μl reaction in CutSmart® Buffer supplemented with 80 μM S-adenosylmethionine containing 1 μg Lambda DNA and a minimum of 40 units of Hpall Methyltransferase incubated for 4 hours at 37°C did not protect the DNA from digestion by Mbol as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of HaeIII digested PhiX174 RF I DNA and a minimum of 40 units of HpaII 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



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gel electrophoresis using fluorescent detection.

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.

Jamie Souza

Production Scientist

10 Nov 2022

Michael Tonello

Packaging Quality Control Inspector

17 Jan 2023



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