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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:	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 μ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μ l against cleavage by Hpall restriction endonuclease.
Packaging Lot Number:	10109221
Expiration Date:	06/2022
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0214SVIAL	Hpall Methyltransferase	10109220	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10106715	Pass	
B6004SVIAL	rCutSmart™ Buffer	10108412	Pass	

Assay Name/Specification	Lot # 10109221
RNase Activity (Extended Digestion) A 10 μ l reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 μ l of Hpall Methyltransferase is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
Protein Purity Assay (SDS-PAGE) Hpall Methyltransferase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [³ H] 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
Non-Specific DNase Activity (16 Hour)	Pass





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Assay Name/Specification	Lot # 10109221
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.	
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

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.

Mala-Samaranayake Production Scientist **1** 17 Jun 2021

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Jason Davis Packaging Quality Control Inspector 17 Jun 2021

