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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: 10137976
Expiration Date: 01/2023
Storage Temperature: -20°C

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

Glycerol, 200 μ g/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	10137977	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10131977	Pass
B6004SVIAL	rCutSmart™ Buffer	10132768	Pass

Assay Name/Specification	Lot # 10137976
Protein Purity Assay (SDS-PAGE) Hpall Methyltransferase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl 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
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
Methylase Activity (dam Methylase)	Pass



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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

01 Feb 2022

Josh Hersey

Packaging Quality Control Inspector

01 Feb 2022



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