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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: 10068166
Expiration Date: 03/2021
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>	Component Description	Lot Number	Individual QC Result
M0214SVIAL	Hpall Methyltransferase	10068165	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10070537	Pass
B7204SVIAL	CutSmart® Buffer	10075569	Pass

Assay Name/Specification	Lot # 10068166
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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This product has been tested and shown to be in compliance with all specifications.

incubation for 16 hours, >90% of the substrate RNA remains intact as determined by

gel electrophoresis using fluorescent detection.

Mala-Samaranayake-

**Production Scientist** 

08 Jul 2020

Michael Tonello

Packaging Quality Control Inspector

08 Jul 2020

