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New England Biolabs Certificate of Analysis

Product Name: Hhal Methyltransferase

Catalog Number: M0217S
Concentration: 25,000 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 30 μl

against cleavage by Hhal restriction endonuclease.

Lot Number: 10044845
Expiration Date: 05/2020
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-M0217S/L v1.0

Hhal Methyltransferase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0217SVIAL	Hhal Methyltransferase	10044846	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10043902	Pass	
B7204SVIAL	CutSmart® Buffer	10042783	Pass	

Assay Name/Specification	Lot # 10044845
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 250 units of Hhal 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 250 units of Hhal 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 PhiX174-HaeIII DNA and a minimum of 125 units of Hhal 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.

Production Scientist

24 Apr 2019

Michael Tonello

Packaging Quality Control Inspector

10 Jun 2019