

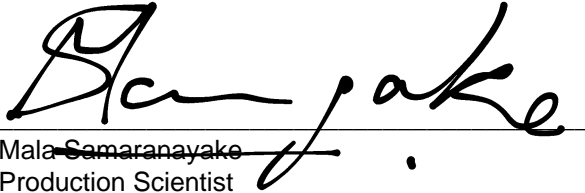
## New England Biolabs Certificate of Analysis

**Product Name:** *HhaI 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 HhaI restriction endonuclease.*  
**Packaging Lot Number:** *10068168*  
**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-M0217S/L v1.0*


HhaI Methyltransferase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0217SVIAL	HhaI Methyltransferase	10068167	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10070537	Pass
B7204SVIAL	CutSmart® Buffer	10075569	Pass

Assay Name/Specification	Lot # 10068168
<p><b>Methylase Activity (dam Methylase)</b>            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 HhaI Methyltransferase incubated for 4 hours at 37°C did not protect the DNA from digestion by MboI as determined by agarose gel electrophoresis.</p>	Pass
<p><b>Non-Specific DNase Activity (16 Hour)</b>            A 50 µl reaction in CutSmart® Buffer containing 1 µg of PhiX174-HaeIII DNA and a minimum of 125 units of HhaI Methyltransferase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass
<p><b>Exonuclease Activity (Radioactivity Release)</b>            A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [<sup>3</sup>H] E. coli DNA and a minimum of 250 units of HhaI Methyltransferase incubated for 4 hours at 37°C releases &lt;0.1% of the total radioactivity.</p>	Pass

This product has been tested and shown to be in compliance with all specifications.



Mala Samaranayake  
Production Scientist  
08 Jul 2020



Michael Tonello  
Packaging Quality Control Inspector  
08 Jul 2020