

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: *10262858*
Expiration Date: *05/2025*
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	10242516	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10233985	Pass
B6004SVIAL	rCutSmart™ Buffer	10245415	Pass

Assay Name/Specification	Lot # 10262858
<p>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 HhaI Methyltransferase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p>	Pass
<p>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 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>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 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

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.



Nicole Castagnozzi
Production Scientist
13 May 2024



Michael Tonello
Packaging Quality Control Inspector
16 Oct 2024