NEW ENGLAND BioLabs® Inc.

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New England Biolabs
Product Specification

Product Name:	*HhaI Methyltransferase*
Catalog #:	*M0217S/L*
Concentration:	*25,000 units/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.*
Shelf Life:	*12 months*
Storage Temp:	*-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*
Effective Date:	*06 Apr 2018*

Assay Name/Specification (minimum release criteria)
Exonuclease Activity (Radioactivity Release) - A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double -stranded [^{3}H] *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.
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.
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.

Date 06 Apr 2018

Derek Robinson
Director of Quality Control

ISO 9001 Registered Quality Management
ISO 14001 Registered Environmental Management
ISO 13485 Registered Medical Devices