

/ERY 240 County Road IE Ipswich, MA 01938-2723

Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: Haelll Methyltransferase

Catalog Number: M0224S
Concentration: 10,000 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 10 μl

against cleavage by HaeIII restriction endonuclease.

Lot Number: 10045553
Expiration Date: 05/2020
Storage Temperature: -20°C

Storage Conditions: 50 mM Tris-HCl, 50 mM KCl, 10 mM EDTA, 1 mM DTT, 200 µg/ml BSA, 50 %

Glycerol, (pH 7.5 @ 25°C)

Specification Version: PS-M0224S/L v1.0

Haelll Methyltransferase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0224SVIAL	Haelll Methyltransferase	10045552	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10043902	Pass	
B0224SVIAL	HaeIII Methyltransferase Reaction Buffer	10027137	Pass	

Assay Name/Specification	Lot # 10045553
Endonuclease Activity (Nicking) A 50 μl reaction in CutSmart® Buffer containing 1 μg of supercoiled pBR322 DNA and a minimum of 100 units of Haelll Methyltransferase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
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 100 units of Haelll Methyltransferase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda-HindIII DNA and a minimum of 100 units of Haelll 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.

Tim Meixsell Production Scientist

05 Nov 2018

Josh Hersey

Packaging Quality Control Inspector

06 Jun 2019

