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240 County Road 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:	BamHI Methyltransferase
Catalog Number:	M0223L
Concentration:	4,000 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 10 μl against cleavage by BamHI restriction endonuclease.
Packaging Lot Number:	10056720
Expiration Date:	10/2020
Storage Temperature:	-20°C
Storage Conditions:	50 mM Tris-HCl, 1 mM DTT, 10 mM EDTA, 50 % Glycerol, 200 μg/ml BSA, (pH 7.5 @ 25°C)
Specification Version:	PS-M0223S/L v1.0

BamHI Methyltransferase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0223LVIAL	BamHI Methyltransferase	10056719	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10055450	Pass	
B0223SVIAL	BamHI Methyltransferase Reaction Buffer	10034591	Pass	

Assay Name/Specification	Lot # 10056720	
Exonuclease Activity (Radioactivity Release) A 50 μ I reaction in NEBuffer 2 containing 1 μ g of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 40 units of BamHI Methyltransferase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass	
Functional Testing (Methyltransferase) A 10 µl reaction in BamHI Methyltransferase Reaction Buffer supplemented with 80 µM SAM containing 1 µg of Lambda DNA and 1 unit of BamHI Methyltransferase incubated for 1 hour at 37°C followed by heat inactivation results in \ge 95% protection from digestion with 10 units of BamHI in CutSmart® Buffer with 10 mM MgCl2 incubated at 37°C for 30 minutes as determined by agarose gel electrophoresis.	Pass	
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of HindIII digested Lambda DNA and a minimum of 40 units of BamHI Methyltransferase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by	Pass	





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Assay Name/S	pecification	Lot # 10056720
agarose gel ele	ctrophoresis.	

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

Imothy menpel

Tim Meixsell Production Scientist 24 Oct 2019

Michae m. N.

Michael Tonello Packaging Quality Control Inspector 10 Jan 2020

