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## New England Biolabs Certificate of Analysis

Product Name:	BamHI Methyltransferase
Catalog #:	M0223S/L
Concentration:	4,000 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 10 μl against cleavage by BamHI restriction endonuclease.
<i>Lot</i> #:	0091803
Assay Date:	03/2018
Expiration Date:	03/2019
Storage Temp:	-20°C
Storage Conditions:	50 mM Tris-HCl, 1 mM DTT, 10 mM EDTA, 50 % Glycerol, 200 αg/ml BSA, (pH 7.5 @ 25°C)
Specification Version:	PS-M0223S/L v1.0
Effective Date:	16 May 2018

Assay Name/Specification (minimum release criteria)   Exonuclease Activity (Radioactivity Release) - A 50 μl reaction in NEBuffer 2 containing 1 μg of a mixture of single and double-stranded [ <sup>3</sup> H] <i>E. coli</i> DNA and a minimum of 40 units of BamHI Methyltransferase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
<b>Non-Specific DNase Activity (16 Hour)</b> - A 50 $\mu$ l reaction in NEBuffer 2 containing 1 $\mu$ g 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 agarose gel electrophoresis.	Pass

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Authorized by Derek Robinson 16 May 2018



Timothy menpel

Inspected by Timothy Meixsell 28 Feb 2018