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## New England Biolabs Certificate of Analysis

Product Name: BamHI
Catalog Number: R0136S
Concentration: 20,000 U/mI

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10069708
Expiration Date: 11/2021
Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0136S/L v1.0

BamHI Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0136SVIAL	BamHI	10058317	Pass	
B7203SVIAL	NEBuffer™ 3.1	10053975	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10065747	Pass	

Assay Name/Specification	Lot # 10069708
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [3H] E. coli DNA and a minimum of 100 units of BamHI incubated for	Pass
4 hours at 37°C releases <0.1% of the total radioactivity.	
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 60 Units of BamHI incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of BamHI, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 20 units of BamHl incubated for 16 hours at 37°C results in a DNA pattern free of	Pass



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

Penghua Zhang Production Scientist

16 Apr 2020

Jay Minichiello

Packaging Quality Control Inspector

16 Apr 2020

