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## New England Biolabs Certificate of Analysis

Product Name: BamHI
Catalog Number: R0136T
Concentration: 100,000 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: 10132934
Expiration Date: 12/2023
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-R0136T/M v1.0

BamHI Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0136TVIAL	BamHI	10132932	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10127723	Pass	
B6003SVIAL	NEBuffer™ r3.1	10116057	Pass	

Assay Name/Specification	Lot # 10132934
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with BamHI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with BamHI.	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 BamHI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation 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
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%	Pass



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4 hours at 37°C releases <0.1% of the total radioactivity.

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Penghua Zhang Production Scientist

19 Jan 2022

Michael Tonello

Packaging Quality Control Inspector

19 Jan 2022



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