

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
Catalog Number: R0136L
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.

Lot Number: 10039761
Expiration Date: 03/2021
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			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0136LVIAL	BamHI	10039760	Pass
B7203SVIAL	NEBuffer™ 3.1	10041001	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10043348	Pass

Assay Name/Specification	Lot # 10039761
Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of BamHI, religated and	Pass
transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 60 Units of BamHl incubated for 4 hours at 37°C results in <10%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	Pass
double-stranded [³H] E. coli DNA and a minimum of 100 units of BamHI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity)	Pass
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,	. 366



R0136L / Lot: 10039761 Page 1 of 2 This product has been tested and shown to be in compliance with all specifications.

detectable nuclease degradation as determined by agarose gel electrophoresis.

Jianying Luo Production Scientist

25 Mar 2019

Michael Tonello

Packaging Quality Control Inspector

05 Jun 2019

