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New England Biolabs Certificate of Analysis

Product Name: BamHI-HF®
Catalog Number: R3136L
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: 10103317 Expiration Date: 03/2023 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-R3136S/L v1.0

BamHI-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3136LVIAL	BamHI-HF®	10101387	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10091457	Pass	
B6004SVIAL	rCutSmart™ Buffer	10103709	Pass	

Assay Name/Specification	Lot # 10103317
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of	Pass
100 Units of BamHI-HF™ incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of BamHI-HF™ incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 100 Units of BamHI-HF™ 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-HF™, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene	Pass



R3136L / Lot: 10103317

Page 1 of 2

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

07 Apr 2021

Josh Hersey

Packaging Quality Control Inspector

07 Apr 2021

