

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	Bcll-HF®
Catalog Number:	R3160S
Concentration:	20,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA (dam-) in 1 hour at 37°C in a total reaction volume of 50 μ l.
Packaging Lot Number:	10138219
Expiration Date:	01/2024
Storage Temperature:	-20°C
Storage Conditions:	300 mM NaCl , 10 mM Tris-HCl , 1 mM DTT , 0.1 mM EDTA , 50 % Glycerol , 500 μg/ml BSA, (pH 7.4 @ 25°C)
Specification Version:	PS-R3160S/L v1.0

Bcll-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3160SVIAL	BclI-HF®	10137420	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10131976	Pass	
B6004SVIAL	rCutSmart™ Buffer	10136925	Pass	

Assay Name/Specification	Lot # 10138219
Functional Testing (15 minute Digest) A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda dam- DNA and 1 µl of BclI-HF incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart® Buffer containing 1 μg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 100 units of BclI-HF incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda dam- DNA with BclI-HF, >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 BclI-HF.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in CutSmart® Buffer containing 1 μg of Lambda dam- DNA and a	Pass





be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350

www.neb.com info@neb.com

Assay Name/Specification	Lot # 10138219
minimum of 60 units of BcII-HF incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	
Protein Purity Assay (SDS-PAGE) Bcll-HF is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

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

Penghua Zhang Production Scientist 08 Mar 2022

Josh Hersey

Packaging Quality Control Inspector 08 Mar 2022

