

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: R3160L

Concentration: 20,000 U/ml

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

of Lambda DNA (dam-) in 1 hour at 37°C in a total reaction volume of

50 μl.

Packaging Lot Number: 10104626 Expiration Date: 03/2023 Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl , 10 mM Tris-HCl , 1 mM DTT , 0.1 mM EDTA , 50 %

Glycerol , 500 μ g/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
R3160LVIAL	Bcll-HF®	10101606	Pass
B7024AVIAL	Gel Loading Dye, Purple (6X)	10092682	Pass
B6004SVIAL	rCutSmart™ Buffer	10105820	Pass

Assay Name/Specification	Lot # 10104626
Protein Purity Assay (SDS-PAGE)	Pass
Bcll-HF is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	
Exonuclease Activity (Radioactivity Release)	Pass
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 BcII-HF 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 dam- DNA with BcII-HF, >95% of the DNA	
ragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated	
ragments, >95% can be recut with BcII-HF.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda dam- DNA and a	
ninimum of 60 units of BcII-HF incubated for 16 hours at 37°C results in a DNA	



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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**

by agarose gel electrophoresis.

06 May 2021

Michael Tonello

Packaging Quality Control Inspector

06 May 2021



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