

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:	R3160L
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:	10091878
Expiration Date:	12/2022
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		
R3160LVIAL	BclI-HF®	10091880	Pass		
B7204SVIAL	CutSmart® Buffer	10091032	Pass		
B7024AVIAL	Gel Loading Dye, Purple (6X)	10089401	Pass		

Assay Name/Specification	Lot # 10091878
Protein Purity Assay (SDS-PAGE) Bcll-HF is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda dam- DNA and a 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.	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
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart® Buffer containing 1 μg of a mixture of single and	Pass





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Assay Name/Specification	Lot # 10091878
double-stranded [³ H] 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.	
Functional Testing (15 minute Digest) A 50 µl reaction in CutSmart® Buffer containing 1 µg of Lambda dam- DNA and 1 µl of Bcll-HF incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	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 16 Dec 2020

Michae 2. 1

Michael Tonello Packaging Quality Control Inspector 16 Dec 2020

