

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/mI
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:	10062206
Expiration Date:	11/2021
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	Bcll-HF®	10059975	Pass	
B7204SVIAL	CutSmart® Buffer	10061299	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10055732	Pass	

Assay Name/Specification	Lot # 10062206
Protein Purity Assay (SDS-PAGE) BclI-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
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 BcII-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	Pass





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Assay Name/Specification	Lot # 10062206
fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with BcII-HF.	
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.

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Stephanie Cornelio Production Scientist 21 Nov 2019

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Jay Minichiello Packaging Quality Control Inspector 08 Jan 2020

