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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: 10060988
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

BcII-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3160LVIAL	Bcll-HF®	10059974	Pass	
B7204SVIAL	CutSmart® Buffer	10055736	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10053980	Pass	

Assay Name/Specification	Lot # 10060988
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 Bcll-HF incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
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
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda dam- DNA with BcII-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 BcII-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



R3160L / Lot: 10060988

Page 1 of 2

This product has been tested and shown to be in compliance with all specifications.

Ben Penta Production Scientist

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10 Oct 2019

Michael Tonello

Packaging Quality Control Inspector

05 Dec 2019