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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.

Lot Number: 10011637
Expiration Date: 06/2020
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®	10011638	Pass	
B7204SVIAL	CutSmart® Buffer	3091805	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	0221803	Pass	

Assay Name/Specification	Lot # 10011637
Protein Purity Assay (SDS-PAGE) Bcll-HF is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	Pass
detection.	
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 Bcll-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 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
Functional Testing (15 minute Digest) A 50 μl reaction in CutSmart® Buffer containing 1 μg of Lambda dam- DNA and 1 μl of	Pass



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

Anthony Francis
Production Scientist

28 Jun 2018

Josh Hersey

Packaging Quality Control Inspector

02 Jul 2018

