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New England Biolabs Certificate of Analysis

Product Name: Bcll-HF®
Catalog Number: R3160S
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: 10028230
Expiration Date: 11/2020
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

Bcll-HF® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R3160SVIAL	Bcll-HF®	10028229	Pass
B7204SVIAL	CutSmart® Buffer	10021119	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021128	Pass

Assay Name/Specification	Lot # 10028230	
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) 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 Bcll-HF incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass	
Functional Testing (15 minute Digest) A 50 μ l reaction in CutSmart® Buffer containing 1 μ g of Lambda dam- DNA and 1 μ l 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 Bcll-HF, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated	Pass	



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

Tony Spear-Alfonso Production Scientist

16 Oct 2018

Michael Tonello

Packaging Quality Control Inspector

13 Nov 2018



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