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New England Biolabs Certificate of Analysis

Product Name: Bcll
Catalog Number: R0160S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA (dam-) in NEBuffer r3.1 in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10228333
Expiration Date: 12/2025
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200

μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0160S v2.0

Bcll Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0160SVIAL	Bcll	10222157	Pass	
B6003SVIAL	NEBuffer™ r3.1	10221488	Pass	

Assay Name/Specification	Lot # 10228333
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer™ r3.1 containing 1 µg of a mixture of single and	
double-stranded [3H] E. coli DNA and a minimum of 100 units of Bcll incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Thous at 37 C releases <0.1 % of the total radioactivity.	
Functional Testing (15 minute Digest)	Pass
A 50 µl reaction in NEBuffer™ r3.1 containing 1 µg of Lambda dam- DNA and 1 µl of	
Bcll incubated for 15 minutes at 37°C results in complete digestion as determined by	
agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 20-fold over-digestion of Lambda dam- DNA with Bcll, >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 Bcll.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in NEBuffer™ r3.1 containing 1 µg of Lambda dam- DNA and a minimum	
of 30 units of Bcll incubated for 16 hours at 37°C results in a DNA pattern free of	



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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.

YunJie Sun \
Production Scientist

12 Jan 2024

Josh Hersey

Packaging Quality Control Inspector

18 Jan 2024



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