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## New England Biolabs Certificate of Analysis

Product Name: Banll
Catalog Number: R0119S
Concentration: 10,000 U/ml

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

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Lot Number: 1003236
Expiration Date: 12/2020
Storage Temperature: -20°C

Storage Conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0119S/L v1.0

Banll Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0119SVIAL	BanII	10032362	Pass	
B7204SVIAL	CutSmart® Buffer	10021125	Pass	

Assay Name/Specification	Lot # 10032361
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	Pass
double-stranded [3H] E. coli DNA and a minimum of 30 units of BanII incubated for 4 hours at 37°C releases <0.2% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BanII, >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 BanII.	Pass
Non-Specific DNase Activity (16 hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of	Pass
10 Units of BanII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE:	
although no nuclease degradation is detected under these conditions, extended	
incubations and/or high concentrations of this enzyme may result in star activity.  See the product FAQ for recommended reaction conditions for this enzyme.	

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



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Tony Spear-Alfonso Production Scientist 10 Dec 2018

Michael Tonello

Packaging Quality Control Inspector

20 Dec 2018