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New England Biolabs Certificate of Analysis

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

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

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

Packaging Lot Number: 10170450 Expiration Date: 11/2024 Storage Temperature: -20°C

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

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0119S/L v1.0

Banll Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0119SVIAL	BanII	10170449	Pass
B6004SVIAL	rCutSmart™ Buffer	10165692	Pass

Assay Name/Specification	Lot # 10170450
Non-Specific DNase Activity (16 hour)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of	
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.	
Ligation and Recutting (Terminal Integrity)	Pass
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.	
Exonuclease Activity (Radioactivity Release)	Pass
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 30 units of BanII incubated for 4	
hours at 37°C releases <0.2% of the total radioactivity.	

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



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POPULO INC. | May GLINOINE | Ipswich, MA 01936-2123 | Pax 916-

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

10 Nov 2022

Michael Tonello

Packaging Quality Control Inspector

10 Nov 2022

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