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New England Biolabs Certificate of Analysis

Product Name: BciVI
Catalog Number: R0596L
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.

Packaging Lot Number: 10090098
Expiration Date: 09/2022
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 0.15% Triton X-100, 200 µg/ml BSA

Specification Version: PS-R0596S/L v1.0

BciVI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0596LVIAL	BciVI	10082618	Pass	
B7204SVIAL	CutSmart® Buffer	10091030	Pass	

Assay Name/Specification	Lot # 10090098
Ligation and Recutting (Terminal Integrity)	Pass
After a 10-fold over-digestion of Lambda DNA with BciVI, ~25% 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 BciVI.	
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 10 units of BciVI incubated for 4 hours at 37°C releases <0.2% of the total radioactivity.	
Protein Purity Assay (SDS-PAGE)	Pass
BciVI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of	
30 Units of BciVI incubated for 16 hours at 37°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis.	

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



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Penghua Zhang Production Scientist

NEW ENGLAND

13 Dec 2020

Josh Hersey

Packaging Quality Control Inspector

13 Dec 2020



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