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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 rCutSmart Buffer in 1 hour at 37°C in a total

reaction volume of 50 µl.

Packaging Lot Number: 10225354
Expiration Date: 11/2025
Storage Temperature: -80°C

Storage Conditions: 10 mM Tris-HCl, 250 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

0.15% Triton X-100, 200 μg/ml BSA (pH 7.4 @ 25°C)

Specification Version: PS-R0596S/L/V v2.0

BciVI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0596LVIAL	BciVI	10215206	Pass	
B6004SVIAL	rCutSmart™ Buffer	10209243	Pass	

Assay Name/Specification	Lot # 10225354
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of a mixture of single and	Pass
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.	
Ligation and Recutting (Terminal Integrity) 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.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in rCutSmart™ 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.	Pass
Protein Purity Assay (SDS-PAGE) BciVI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass



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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 Suń

Production Scientist

18 Dec 2023

Michael Tonello

Packaging Quality Control Inspector

20 Dec 2023

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