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New England Biolabs Certificate of Analysis

Product Name: BbvCl
Catalog Number: R0601L
Concentration: 2,000 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: 10182469
Expiration Date: 03/2024
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 300 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

500 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0601S/L v3.0

BbvCl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0601LVIAL	BbvCl	10182470	Pass	
B6004SVIAL	rCutSmart™ Buffer	10176423	Pass	

Assay Name/Specification	Lot # 10182469
Exonuclease Activity (Radioactivity Release)	Pass
A 50 μl reaction in rCutSmart™ Buffer containing 1 μg of a mixture of single and	
double-stranded [3H] E. coli DNA and a minimum of 10 units of BbvCl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
,	
Ligation and Recutting (Terminal Integrity)	Pass
After a 2-fold over-digestion of Lambda DNA with BbvCl, 95% can be recut with BbvCl.	
Non-Specific DNase Activity (16 hour)	Pass
A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of	
2 units of BbvCl 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.	
Protein Purity Assay (SDS-PAGE)	Pass
BbvCl is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	



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Assay Name/Specification	Lot # 10182469
detection.	
qPCR DNA Contamination (E. coli Genomic) A minimum of 2 units of BbvCl is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is ≤ 1 E. coli genome.	Pass

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 20 Mar 2023

Josh Hersey Packaging Quality Control Inspector

29 Mar 2023



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