

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	BbvCl
Catalog Number:	R0601S
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:	10141323
Expiration Date:	03/2023
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

BbvCI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0601SVIAL	BbvCl	10141288	Pass	
B6004SVIAL	rCutSmart™ Buffer	10138402	Pass	

Assay Name/Specification	Lot # 10141323
Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of Lambda DNA with BbvCI, 95% can be recut with BbvCI.	Pass
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
Protein Purity Assay (SDS-PAGE) BbvCl is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 hour) 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	Pass





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incubations and/or high concentrations of this enzyme may result in star activity. See the product FAQ for recommended reaction conditions for this enzyme.	
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in rCutSmart [™] Buffer containing 1 µg of a mixture of single and double-stranded [³ H] 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.	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.

Penghua Zhang

Penghua Zhang Production Scientist 01 Apr 2022

Michae 2. 1

Michael Tonello Packaging Quality Control Inspector 01 Apr 2022

