

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: Nt.BbvCl
Catalog Number: R0632L
Concentration: 10,000 U/ml

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

of supercoiled pUB DNA to open circular form in 1 hour at 37°C in a

total reaction volume of 50 μl.

Packaging Lot Number: 10173209
Expiration Date: 12/2024
Storage Temperature: -20°C

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

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0632S/L v1.0

Nt.BbvCl Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0632LVIAL	Nt.BbvCl	10173208	Pass	
B6004SVIAL	rCutSmart™ Buffer	10173161	Pass	

Assay Name/Specification	Lot # 10173209
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled pUC19 DNA and a minimum of 30 units of Nt.BbvCl incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) 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 Nt.BbvCl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 30 Units of Nt.BbvCl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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

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YunJie Sun Production Scientist 22 Dec 2022 Michael Tonello

Packaging Quality Control Inspector

22 Dec 2022