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New England Biolabs
Certificate of Analysis

Product Name:	Nb.BbvCI
Catalog Number:	R0631L
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.
Lot Number:	10044602
Expiration Date:	05/2021
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-R0631S/L v2.0

Nb.BbvCI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0631LVIAL	Nb.BbvCI	10044603	**Pass**
B7204SVIAL	CutSmart® Buffer	10043913	**Pass**

Assay Name/Specification	Lot # 10044602
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 Nb.BbvCI 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 pUB DNA and a minimum of 10 units of Nb.BbvCI 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.	**Pass**

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

ISO 9001 Registered Quality Management
ISO 13485 Registered Medical Devices
ISO 14001 Registered Environmental Management

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Jianying Luo
Production Scientist
20 May 2019

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Michael Tonello
Packaging Quality Control Inspector
03 Jul 2019

R0631L / Lot: 10044602