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:	*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.*
Packaging Lot Number:	*10247627*
Expiration Date:	*06/2026*
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	10241230	**Pass**
B6004SVIAL	rCutSmart™ Buffer	10243105	**Pass**

Assay Name/Specification	**Lot # 10247627**
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [^{3}H] E. coli DNA and a minimum of 30 units of Nb.BbvCI incubated for 4 hours at 37ºC 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 37ºC 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**

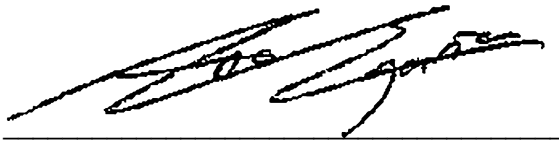
This product has been tested and shown to be in compliance with all specifications.

NEW ENGLAND Biolabs®

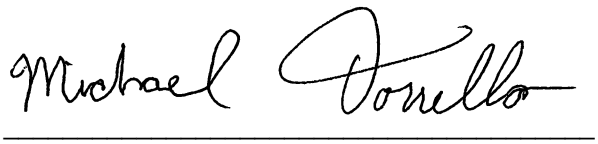
240 County Road
Ipswich, MA 01938-2723

Tel 978-927-5054
Fax 978-921-1350

www.neb.com
info@neb.com



Ana Egana
Production Scientist
27 Jun 2024



Michael Tonello
Packaging Quality Control Inspector
27 Jun 2024