NEW ENGLAND BioLabs Inc.
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:	*Nt.BbvCI*
Catalog Number:	*R0632S*
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:	*10063194*
Expiration Date:	*12/2021*
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-R0632S/L v1.0*

Nt.BbvCI Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
R0632SVIAL	Nt.BbvCI	10061560	**Pass**
B7204SVIAL	CutSmart® Buffer	10064409	**Pass**

Assay Name/Specification	**Lot # 10063194**
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.BbvCI incubated for 4 hours at 37ºC 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 [^{3}H] E. coli DNA and a minimum of 30 units of Nt.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 Lambda DNA and a minimum of 30 Units of Nt.BbvCI incubated for 16 hours at 37ºC 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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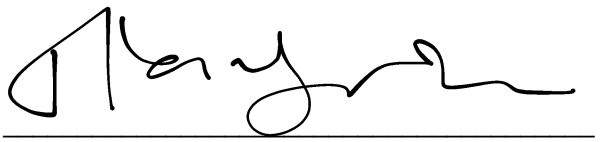
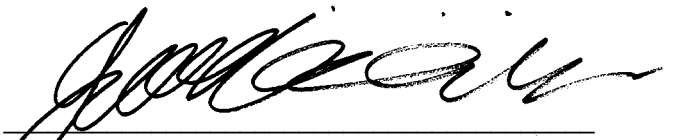


Jianying Luo
Production Scientist
06 Dec 2019



Jay Minichiello
Packaging Quality Control Inspector
11 Feb 2020