

New England Biolabs Certificate of Analysis

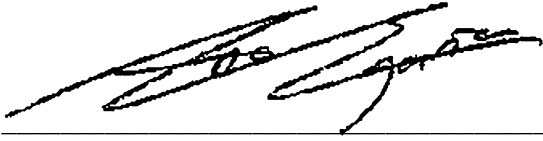
Product Name: Nb.BbvCI
Catalog Number: R0631S
Concentration: 10,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to convert 1 µg of supercoiled pUB DNA to open circular form in 1 hour at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10252387
Expiration 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
R0631SVIAL	Nb.BbvCI	10241231	Pass
B6004SVIAL	rCutSmart™ Buffer	10245416	Pass

Assay Name/Specification	Lot # 10252387
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 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.

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Yanxia Bei
Production Scientist
19 Aug 2024



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19 Aug 2024