

New England Biolabs Certificate of Analysis

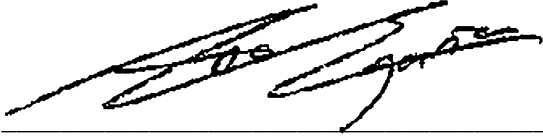
Product Name: *BbvI*
Catalog Number: *R0173S*
Concentration: *2,000 U/ml*
Unit Definition: *One unit is defined as the amount of enzyme required to digest 1 µg of pBR322 DNA in 1 hour at 37°C in a total reaction volume of 50 µl.*
Packaging Lot Number: *10235575*
Expiration Date: *02/2026*
Storage Temperature: *-20°C*
Storage Conditions: *200 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA*
Specification Version: *PS-R0173S/L v1.0*

BbvI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0173SVIAL	BbvI	10229785	Pass
B6004SVIAL	rCutSmart™ Buffer	10228580	Pass

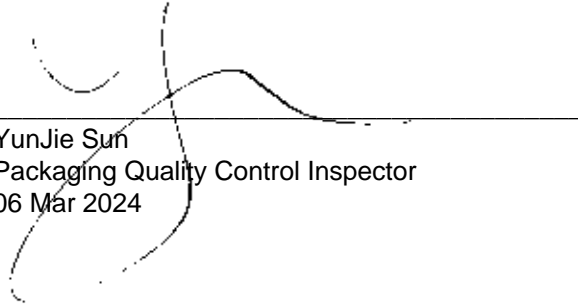
Assay Name/Specification	Lot # 10235575
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 2 units of BbvI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of Lambda DNA with BbvI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 25°C. Of these ligated fragments, >95% can be recut with BbvI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pBR322 DNA and a minimum of 2 units of BbvI 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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Ana Egana
Production Scientist
06 Mar 2024



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Packaging Quality Control Inspector
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