

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: Bbvl
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: 10143582
Expiration Date: 03/2024
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

Bbvl Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0173SVIAL	BbvI	10143581	Pass	
B6004SVIAL	rCutSmart™ Buffer	10143285	Pass	

Assay Name/Specification	Lot # 10143582
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 Bbvl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	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
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 2 units of Bbvl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



R0173S / Lot: 10143582



Pengha Zhang Production Scientist 21 Mar 2022 Michael Tonello

Packaging Quality Control Inspector

21 Mar 2022

R0173S / Lot: 10143582

Page 2 of 2