

*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:	BbsI
Catalog Number:	R0539S
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μg of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.
Packaging Lot Number:	10066880
Expiration Date:	01/2021
Storage Temperature:	-80°C
Storage Conditions:	300 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 300 μg/ml BSA
Specification Version:	PS-R0539S/L v2.0

Bbsl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0539SVIAL	Bbsl	10063249	Pass	
B7202SVIAL	NEBuffer™ 2.1	10043907	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10059229	Pass	

Assay Name/Specification	Lot # 10066880
<b>Endonuclease Activity (Nicking)</b> A 50 µl reaction in NEBuffer 2.1 containing 1 µg of supercoiled pUC19 DNA and a minimum of 10 units of BbsI incubated for 4 hours at 37°C results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in NEBuffer 2.1 containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 50 units of BbsI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> After a 20-fold over-digestion of Lambda DNA with BbsI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 4 hours hours at 25°C. Of these ligated fragments, >95% can be recut with BbsI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 ul reaction in NEBuffer 2.1 containing 1 ug of Lambda DNA and a minimum of 50 units of BbsI incubated for 16 hours at 37°C results in a DNA pattern free of	Pass





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Assay Name/Specification	Lot # 10066880
detectable nuclease degradation as determined by agarose gel electrophoresis.	

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

tephonie Onetto

Stephanie Cornelio Production Scientist 07 Jan 2020

Michae m. l.

Michael Tonello Packaging Quality Control Inspector 03 Feb 2020

