

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: Bbsl
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.

Lot Number: 10013049
Expiration Date: 06/2019
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	10013050	Pass	
B7202SVIAL	NEBuffer™ 2.1	0251706	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	0261805	Pass	

Assay Name/Specification	Lot # 10013049
Non-Specific DNase Activity (16 Hour)	Pass
A 50 ul reaction in NEBuffer 2.1 containing 1 ug of Lambda DNA and a minimum of 50 units of Bbsl incubated for 16 hours at 37°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in NEBuffer 2.1 containing 1 µg of supercoiled pUC19 DNA and a minimum of 10 units of Bbsl incubated for 4 hours at 37°C results in <20% conversion	
to the nicked form as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity)	Pass
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 Bbsl.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer 2.1 containing 1 µg of a mixture of single and	. 300
double-stranded [3H] E. coli DNA and a minimum of 50 units of Bbsl incubated for 4	



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Stephani Onetto

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Assay Name/Specification	Lot # 10013049
hours at 37°C releases <0.1% of the total radioactivity.	

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

Stephanie Cornelio Production Scientist

26 Jun 2018

Mary Conlon

Packaging Quality Control Inspector 26 Jun 2018



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