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New England Biolabs Certificate of Analysis

Product Name: Bbsl
Catalog Number: R0539L
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: 10056374
Expiration Date: 09/2020
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	
R0539LVIAL	Bbsl	10055537	Pass	
B7202SVIAL	NEBuffer™ 2.1	10043907	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10046084	Pass	

Assay Name/Specification	Lot # 10056374
Endonuclease Activity (Nicking) 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.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of Bbsl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with Bbsl, >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.	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 Bbsl incubated for 16 hours at 37°C results in a DNA pattern free of	Pass



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Assay Name/Specification	Lot # 10056374
detectable nuclease degradation as determined by agarose gel electrophoresis.	

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

Doreen Duquette Production Scientist 20 Aug 2019

Michael Tonello
Packaging Quality

Packaging Quality Control Inspector

29 Oct 2019