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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: 10098864
Expiration Date: 02/2022
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0539LVIAL	Bbsl	10098863	Pass	
B7202SVIAL	NEBuffer™ 2.1	10090560	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10091034	Pass	

Assay Name/Specification	Lot # 10098864
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 # 10098864
detectable nuclease degradation as determined by agarose gel electrophoresis.	

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

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Penghaa Zhang Production Scientist

24 Feb 2021

Michael Tonello

Packaging Quality Control Inspector

24 Feb 2021

