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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.

Packaging Lot Number: 10137478
Expiration Date: 02/2023
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 | 10137477 | Pass | |
| B7024AVIAL | Gel Loading Dye, Purple (6X) | 10131976 | Pass | |
| B6002SVIAL | NEBuffer™ r2.1 | 10103928 | Pass | |

| Assay Name/Specification | Lot # 10137478 |
|--|----------------|
| 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. coll 50 Å and a minimum of 50 units of Bbsl incubated for 4 | Pass |
| hours at 37°C releases <0.1% of the total radioactivity. 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 |
| 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 | Pass |
| fragments, >95% can be recut with Bbsl. 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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| 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

01 Mar 2022

Michael Tonello

Packaging Quality Control Inspector

01 Mar 2022

