

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: BsmBl-v2
Catalog Number: R0739L
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 55°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10107035 Expiration Date: 02/2023 Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 %

Glycerol , 500 μg/ml BSA, (pH 7.4 @ 25°C)

Specification Version: PS-R0739S/L v1.0

| BsmBI-v2 Component List | | | | |
|-------------------------|------------------------------|------------|----------------------|--|
| NEB Part Number | Component Description | Lot Number | Individual QC Result | |
| R0739LVIAL | BsmBI-v2 | 10099765 | Pass | |
| B7024AVIAL | Gel Loading Dye, Purple (6X) | 10093123 | Pass | |
| B6003SVIAL | NEBuffer™ r3.1 | 10102967 | Pass | |

| Assay Name/Specification | Lot # 10107035 |
|---|----------------|
| Protein Purity Assay (SDS-PAGE) BsmBl-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue | Pass |
| detection. | |
| Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 10 | Pass |
| units of BsmBI-v2 incubated for 16 hours at 55°C results in a DNA pattern free of | |
| detectable nuclease degradation as determined by agarose gel electrophoresis. | |
| Ligation and Recutting (Terminal Integrity) | Pass |
| After a 10-fold over-digestion of Lambda DNA with BsmBI-v2, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated | |
| fragments, >95% can be recut with BsmBI-v2. | |
| Functional Testing (15 minute Digest) | Pass |
| A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and 1 µl of BsmBl-v2 incubated for 15 minutes at 55°C results in complete digestion as determined by | |
| agarose gel electrophoresis. | |



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

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JianYing Luo Production Scientist 26 May 2021 Michael Tonello

Packaging Quality Control Inspector

26 May 2021



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