

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: R0739S
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: 10105217
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	
R0739SVIAL	BsmBI-v2	10099763	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10093116	Pass	
B6003SVIAL	NEBuffer™ r3.1	10102967	Pass	

Assay Name/Specification	Lot # 10105217
Protein Purity Assay (SDS-PAGE)	Pass
BsmBl-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 10 units of BsmBl-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 10 May 2021 Michael Tonello

Packaging Quality Control Inspector

10 May 2021



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