

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: 10133500 Expiration Date: 10/2023 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	10123720	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10127723	Pass	
B6003SVIAL	NEBuffer™ r3.1	10126635	Pass	

Assay Name/Specification	Lot # 10133500
Protein Purity Assay (SDS-PAGE) BsmBl-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	Pass
detection.	
Functional Testing (15 minute Digest) A 50 μl reaction in NEBuffer 3.1 containing 1 μg of Lambda DNA and 1 μl of BsmBl-v2	Pass
incubated for 15 minutes at 55°C results in complete digestion as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of BsmBl-v2 incubated	
for 4 hours at 55°C releases <0.1% of the total radioactivity.	
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 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.	



R0739L / Lot: 10133500

Page 1 of 2

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

conversion to the nicked form as determined by agarose gel electrophoresis.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Penghaa Zhang Production Scientist

04 Jan 2022

Michael Tonello

Packaging Quality Control Inspector

04 Jan 2022



R0739L / Lot: 10133500

Page 2 of 2