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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: 10165083
Expiration Date: 06/2024
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	10154045	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10162784	Pass	
B6003SVIAL	NEBuffer™ r3.1	10146826	Pass	

Assay Name/Specification	Lot # 10165083
Protein Purity Assay (SDS-PAGE) BsmBI-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
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 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.	Pass
Ligation and Recutting (Terminal Integrity) 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.	Pass
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 incubated for 15 minutes at 55°C results in complete digestion as determined by agarose gel electrophoresis.	Pass



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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

21 Jun 2022

Michael Tonello

Packaging Quality Control Inspector

27 Oct 2022



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