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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: 10059567
Expiration Date: 11/2021
Storage Temperature: -20°C

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

Glycerol , 500 μ g/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	10058637	Pass	
B7203SVIAL	NEBuffer™ 3.1	10053972	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10046085	Pass	

Assay Name/Specification	Lot # 10059567
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
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
Protein Purity Assay (SDS-PAGE) BsmBI-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Exonuclease Activity (Radioactivity Release) 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.	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.

Jianying Luo Production Scientist

01 Nov 2019

Michael Tonello

Packaging Quality Control Inspector

13 Nov 2019

