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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: 10097293
Expiration Date: 12/2022
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	10093311	Pass	
B7203SVIAL	NEBuffer™ 3.1	10092686	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10089405	Pass	

Assay Name/Specification	Lot # 10097293
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.	
Protein Purity Assay (SDS-PAGE) BsmBI-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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.

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JianYing Luo **Production Scientist**

03 Feb 2021

Michael Tonello

Packaging Quality Control Inspector





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