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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: 10170459
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)	10163561	Pass	
B6003SVIAL	NEBuffer™ r3.1	10146827	Pass	

Assay Name/Specification	Lot # 10170459
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.

for 4 hours at 55°C releases <0.1% of the total radioactivity.

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

Josh Hersey

Packaging Quality Control Inspector

14 Nov 2022



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