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New England Biolabs Certificate of Analysis

Product Name: BsaBI
Catalog Number: R0537S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 μg

of Lambda DNA (dam-) in 1 hour at 60°C in a total reaction volume of

50 μl.

Lot Number: 10008142
Expiration Date: 04/2020
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 500 μg/ml BSA

Specification Version: PS-R0537S/L v1.0

BsaBl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0537SVIAL	BsaBl	0121804	Pass	
B7204SVIAL	CutSmart® Buffer	3051803	Pass	

Assay Name/Specification	Lot # 10008142
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda dam- DNA with BsaBI, >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 BsaBI.	Pass
Non-Specific DNase Activity (16 hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda dam- DNA and a minimum of 10 of BsaBl incubated for 16 hours at 60°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended incubations and/or high concentrations of this enzyme may result in star activity. See the product FAQ for recommended reaction conditions for this enzyme.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart™ Buffer containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of BsaBl incubated for 4 hours at 60°C releases <0.1% of the total radioactivity.	Pass



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Assay Name/Specification	Lot # 10008142
Protein Purity Assay (SDS-PAGE) BsaBl is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	Pass
detection.	

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

Penghua Zhang

Production Scientist

11 May 2018

Michael Tonello

Packaging Quality Control Inspector

11 May 2018

