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New England Biolabs Certificate of Analysis

Product Name: BsaBI
Catalog Number: R0537L
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: 10034042
Expiration Date: 01/2021
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	
R0537LVIAL	BsaBl	10034043	Pass	
B7204SVIAL	CutSmart® Buffer	10031563	Pass	

Assay Name/Specification	Lot # 10034042
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
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



R0537L / Lot: 10034042

Page 1 of 2



Assay Name/Specification	Lot # 10034042
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.

Tony Spear-Alfonso Production Scientist

18 Dec 2018

Michael Tonello

Packaging Quality Control Inspector

24 Jan 2019

