

*be* INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name:	BsaBl
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.
Packaging Lot Number:	10087524
Expiration Date:	07/2022
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

BsaBI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0537SVIAL	BsaBl	10079764	Pass	
B7204SVIAL	CutSmart® Buffer	10085423	Pass	

Assay Name/Specification	Lot # 10087524
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 100 units of BsaBI incubated for 4 hours at 60°C releases <0.1% of the total radioactivity.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> 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 <sup>™</sup> Buffer containing 1 µg of Lambda dam- DNA and a minimum of 10 units 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





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Assay Name/Specification	Lot # 10087524
Protein Purity Assay (SDS-PAGE) BsaBl is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

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

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.

Penghua Zhang

Penghua Zhang Production Scientist 09 Nov 2020

Michae

Michael Tonello Packaging Quality Control Inspector 09 Nov 2020

