

New England Biolabs Certificate of Analysis

Product Name: BsaBI
Catalog #: R0537S/L

Concentration: 10,000 units/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 μ l.

 Lot #:
 0111510

 Assay Date:
 10/2015

 Expiration Date:
 10/2017

 Storage Temp:
 -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
Effective Date: 27 Jun 2014

Assay Name/Specification (minimum release criteria)	Lot #0111510
Exonuclease Activity (Radioactivity Release) - A 50 μl reaction in CutSmart TM Buffer containing 1 μg of a mixture of single and double-stranded [³ H] <i>E. coli</i> DNA and a minimum of 100 units of BsaBI 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 TM Buffer containing 1 μg of Lambda dam- DNA and a minimum of 10 of BsaBI 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
Protein Purity Assay (SDS-PAGE) - BsaBI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass







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* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (#R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.

Authorized by Derek Robinson 27 Jun 2014







Inspected by Jianying Luo 23 Oct 2015