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New England Biolabs Certificate of Analysis

Product Name: BsaJI
Catalog Number: R0536S
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 60°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10169327 Expiration Date: 10/2024 Storage Temperature: -20°C

Storage Conditions: 100 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 0.01% Triton X-100, 200 µg/ml BSA

Specification Version: PS-R0536S/L v1.0

BsaJI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0536SVIAL	BsaJI	10169326	Pass	
B6004SVIAL	rCutSmart™ Buffer	10158558	Pass	

Assay Name/Specification	Lot # 10169327
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 50 units of BsaJl 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 DNA with BsaJI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 4 hours at 25°C. Of these ligated fragments, >95% can be recut with BsaJI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 50 Units of BsaJl incubated for 16 hours at 60°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	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.



R0536S / Lot: 10169327

YunJie Sun

Production Scientist 26 Oct 2022

NEW ENGLAND

Michael Tonello

Packaging Quality Control Inspector

27 Oct 2022