

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: 10259100
Expiration Date: 07/2026
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	10247975	Pass
B6004SVIAL	rCutSmart™ Buffer	10245415	Pass

Assay Name/Specification	Lot # 10259100
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 50 units of BsaJI 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 BsaJI 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.

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Nancy Considine
Production Scientist
09 Sep 2024



Michael Tonello
Packaging Quality Control Inspector
12 Sep 2024