

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.
Lot Number: 10039308
Expiration Date: 03/2021
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	10039309	Pass
B7204SVIAL	CutSmart® Buffer	10043914	Pass

Assay Name/Specification	Lot # 10039308
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
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

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

Stephanie Cornelio

Stephanie Cornelio
Production Scientist
12 Mar 2019

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
11 Jul 2019