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New England Biolabs Certificate of Analysis

Product Name: BstAPI
Catalog Number: R0654S
Concentration: 5,000 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: 10149870
Expiration Date: 01/2024
Storage Temperature: -20°C

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

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0654S/L v1.0

BstAPI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0654SVIAL	BstAPI	10134240	Pass	
B6004SVIAL	rCutSmart™ Buffer	10143288	Pass	

Assay Name/Specification	Lot # 10149870
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BstAPI, ~75% 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 BstAPI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 5 Units of BstAPI 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 [³H] E. coli DNA and a minimum of 25 units of BstAPI 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.

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R0654S / Lot: 10149870 Page 1 of 2 Penghua Zhang Production Scientist 21 Apr 2022

Erin Varney

Packaging Quality Control Inspector

21 Apr 2022