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New England Biolabs Certificate of Analysis

Product Name: BssHII
Catalog Number: R0199L
Concentration: 5,000 U/mI

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

Lambda DNA in 1 hour at 50°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10156997
Expiration Date: 07/2024
Storage Temperature: -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-R0199S/L v2.0

BssHII Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0199LVIAL	BssHII	10156995	Pass	
B6004SVIAL	rCutSmart™ Buffer	10153337	Pass	

Assay Name/Specification	Lot # 10156997
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 BssHII incubated for 16 hours at 50°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with BssHII, >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 BssHII.	Pass
Protein Purity Assay (SDS-PAGE) BSsHII is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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 50 units of BssHII incubated for 4 hours at 50°C releases <0.1% of the total radioactivity.	Pass



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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.

Penghua Zhang Production Scientist

15 Jul 2022

Erin Varney

Packaging Quality Control Inspector

15 Jul 2022



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