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New England Biolabs Certificate of Analysis

Product Name: Bsll
Catalog Number: R0555S
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 55°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10102148
Expiration Date: 03/2023
Storage Temperature: -20°C

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

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0555S/L v1.0

BsII Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0555SVIAL	Bsll	10102149	Pass	
B6004SVIAL	rCutSmart™ Buffer	10102966	Pass	

Assay Name/Specification	Lot # 10102148
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 30 units of BsII incubated for 16 hours at 55°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 50 units of BsII incubated for 4 hours at 55°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BsII, ~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 BsII.	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.



R0555S / Lot: 10102148

Penghua Zhang **Production Scientist**

01 Apr 2021

Josh Hersey Packaging Quality Control Inspector 01 Apr 2021