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New England Biolabs Certificate of Analysis

Product Name: Bsrl
Catalog Number: R0527L
Concentration: 10,000 U/ml

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

of PhiX174 DNA in 1 hour at 65°C in a total reaction volume of 50

 μl .

Lot Number: 10049812
Expiration Date: 07/2021
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-R0527S/L v2.0

Bsrl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0527LVIAL	Bsrl	10049813	Pass	
B7203SVIAL	NEBuffer™ 3.1	10041001	Pass	

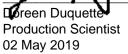
Assay Name/Specification	Lot # 10049812
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of Bsrl incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of PhiX174 DNA with Bsrl, ~75% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~75% can be recut with Bsrl.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 3.1 containing 1 μg of PhiX174 DNA and a minimum of 50 units of Bsrl incubated for 16 hours at 65°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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Michael Tonello Packaging Quality Control Inspector 26 Jul 2019