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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.

Packaging Lot Number: 10126486
Expiration Date: 09/2023
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	10122972	Pass	
B6003SVIAL	NEBuffer™ r3.1	10132774	Pass	

Assay Name/Specification	Lot # 10126486
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	Pass
double-stranded [³H] E. coli DNA and a minimum of 50 units of BsrI incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of PhiX174 DNA with BsrI, ~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 BsrI.	Pass
Non-Specific DNase Activity (16 Hour)	Pass
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.	

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

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Penghua Zhang **Production Scientist** 07 Mar 2022

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Packaging Quality Control Inspector

07 Mar 2022