

New England Biolabs Certificate of Analysis

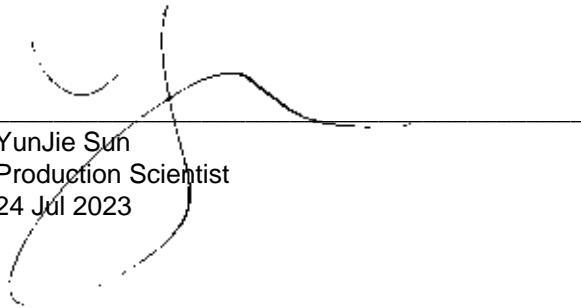
Product Name: *Bsrl*
Catalog Number: *R0527S*
Concentration: *10,000 U/ml*
Unit Definition: *One unit is defined as the amount of enzyme required to digest 1 µg of PhiX174 DNA in 1 hour at 65°C in a total reaction volume of 50 µl.*
Packaging Lot Number: *10204666*
Expiration Date: *07/2025*
Storage Temperature: *-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
R0527SVIAL	Bsrl	10199816	Pass
B6003SVIAL	NEBuffer™ r3.1	10182162	Pass

Assay Name/Specification	Lot # 10204666
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³ H] 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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YunJie Sun
Production Scientist
24 Jul 2023


Josh Hersey
Packaging Quality Control Inspector
29 Sep 2023