

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: *10063643*
Expiration Date: *01/2022*
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	10063642	Pass
B7203SVIAL	NEBuffer™ 3.1	10053973	Pass

Assay Name/Specification	Lot # 10063643
<p>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.</p>	Pass
<p>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.</p>	Pass
<p>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.</p>	Pass

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

Stephanie Cornelio

Stephanie Cornelio
Production Scientist
07 Jan 2020

Jay Minichiello

Jay Minichiello
Packaging Quality Control Inspector
04 Feb 2020