

New England Biolabs Certificate of Analysis

Product Name: BsrI
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: 10070659
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

BsrI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0527LVIAL	BsrI	10063644	Pass
B7203SVIAL	NEBuffer™ 3.1	10053975	Pass

Assay Name/Specification	Lot # 10070659
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 BsrI 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 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) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of PhiX174 DNA and a minimum of 50 units of BsrI 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.



Penghua Zhang
Production Scientist
02 Apr 2020



Jay Minichiello
Packaging Quality Control Inspector
02 Apr 2020