

New England Biolabs Certificate of Analysis

Product Name: BsrI
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: 10083763
Expiration Date: 09/2022
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
R0527SVIAL	BsrI	10083762	Pass
B7203SVIAL	NEBuffer™ 3.1	10085492	Pass

Assay Name/Specification	Lot # 10083763
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
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

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

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23 Oct 2020



Josh Hersey
Packaging Quality Control Inspector
23 Oct 2020