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New England Biolabs Certificate of Analysis

Product Name: BsrGI
Catalog Number: R0575L
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10056099
Expiration Date: 10/2021
Storage Temperature: -20°C

Storage Conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0575S/L v1.0

BsrGl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0575LVIAL	BsrGI	10056098	Pass	
B7202SVIAL	NEBuffer™ 2.1	10043907	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10046084	Pass	

Assay Name/Specification	Lot # 10056099
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in NEBuffer 2.1 containing 1 μg of Lambda DNA and a minimum of 100 Units of BsrGl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in NEBuffer 2.1 containing 1 μg of supercoiled PhiX174 DNA and a minimum of 50 Units of BsrGl incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of BsrGI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BsrGI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments,	Pass



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Assay Name/Specification	Lot # 10056099
>95% can be recut with BsrGI.	

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

Production Scientist

20 Aug 2019

Jay Minichiello

Packaging Quality Control Inspector

04 Nov 2019