

be INSPIRED *drive* DISCOVERY *stay* GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	BsrGl
Catalog Number:	R0575S
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:	10060426
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

BsrGI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0575SVIAL	BsrGI	10056100	Pass	
B7202SVIAL	NEBuffer™ 2.1	10043907	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10053980	Pass	

Assay Name/Specification	Lot # 10060426
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 BsrGI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	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, >95% can be recut with BsrGI.	Pass
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of a mixture of single and double-stranded [³ H] 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
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 BsrGI incubated for 4 hours at 37°C results in <10%	Pass





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Assay Name/Specification	Lot # 10060426
conversion to the nicked form as determined by agarose gel electrophoresis.	

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

Stephonie Onetto

Stephanie Cornelio Production Scientist 17 Oct 2019

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Minichiello Packaging Quality Control Inspector 13 Dec 2019

