

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:	R0575L
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
Packaging Lot Number:	10112340
Expiration Date:	06/2023
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	
R0575LVIAL	BsrGl	10112339	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10093123	Pass	
B6002SVIAL	NEBuffer™ r2.1	10102965	Pass	

Assay Name/Specification	Lot # 10112340
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% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
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,	Pass





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>95% can be recut with BsrGI.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Penghua Zhang Production Scientist 19 Jul 2021

Michae

Michael Tonello Packaging Quality Control Inspector 19 Jul 2021

