

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 µg

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

Packaging Lot Number: 10093197
Expiration Date: 12/2022
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	10093196	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10092682	Pass	
B6002SVIAL	NEBuffer™ r2.1	10103928	Pass	

Assay Name/Specification	Lot # 10093197
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	Pass
detectable nuclease degradation as determined by agarose gel electrophoresis.	
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
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
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



R0575L / Lot: 10093197

Page 1 of 2

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

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Penghaa Zhang Production Scientist

23 Apr 2021

Josh Hersey

Packaging Quality Control Inspector

23 Apr 2021

