

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: Bsgl
Catalog Number: R0559S
Concentration: 5,000 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 volume of 50 μl.

Packaging Lot Number: 10098888
Expiration Date: 02/2023
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 0.32 mM

S-adenosylmethionine (SAM), 50% Glycerol, 500 µg/ml BSA (pH 7.4 @

25°C)

Specification Version: PS-R0559S/L v2.0

Bsgl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0559SVIAL	Bsgl	10098887	Pass	
B7204SVIAL	CutSmart® Buffer	10093127	Pass	

Assay Name/Specification	Lot # 10098888
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart™ Buffer containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of Bsgl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of Lambda DNA with Bsgl, >95% 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 Bsgl.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 15 Units of Bsgl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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

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Penghua Zhang Production Scientist 01 Mar 2021 Michael Tonello

Packaging Quality Control Inspector 01 Mar 2021

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