

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: R0559L
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: 1008752 Expiration Date: 10/2022 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	
R0559LVIAL	Bsgl	10087521	Pass	
B7204SVIAL	CutSmart® Buffer	10089407	Pass	

Assay Name/Specification	Lot # 10087520
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
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

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.



R0559L / Lot: 10087520 Page 1 of 2



Penghua Zhang Production Scientist 01 Dec 2020 Michael Tonello

Packaging Quality Control Inspector

01 Dec 2020