

## New England Biolabs Certificate of Analysis

**Product Name:** Bcgl  
**Catalog Number:** R0545L  
**Concentration:** 2,000 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.  
**Lot Number:** 10025938  
**Expiration Date:** 10/2020  
**Storage Temperature:** -20°C  
**Storage Conditions:** 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA  
**Specification Version:** PS-R0545S/L v1.0

| Bcgl Component List |                            |            |                      |
|---------------------|----------------------------|------------|----------------------|
| NEB Part Number     | Component Description      | Lot Number | Individual QC Result |
| R0545LVIAL          | Bcgl                       | 10025939   | Pass                 |
| B9003SVIAL          | S-adenosylmethionine (SAM) | 10018391   | Pass                 |
| B7203SVIAL          | NEBuffer™ 3.1              | 10021111   | Pass                 |

| Assay Name/Specification   | Lot # 10025938 |
|--|----------------|
| <b>Exonuclease Activity (Radioactivity Release)</b><br>A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 20 units of Bcgl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.    | Pass           |
| <b>Non-Specific DNase Activity (16 Hour)</b><br>A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 10 Units of Bcgl 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.



Tony Spear-Alfonso  
Production Scientist  
21 Aug 2018



Michael Tonello  
Packaging Quality Control Inspector  
12 Nov 2018