

## New England Biolabs Certificate of Analysis

**Product Name:** Bcgl  
**Catalog Number:** R0545S  
**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.  
**Packaging Lot Number:** 10058590  
**Expiration Date:** 08/2021  
**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
R0545SVIAL	Bcgl	10054132	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10055450	Pass
B7203SVIAL	NEBuffer™ 3.1	10053972	Pass

Assay Name/Specification	Lot # 10058590
<b>Exonuclease Activity (Radioactivity Release)</b> 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> 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.



Anthony Francis  
Production Scientist  
27 Aug 2019



Michael Tonello  
Packaging Quality Control Inspector  
19 Nov 2019