

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: 10043922
Expiration Date: 05/2021
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
R0545LVIAL	Bcgl	10043923	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10041003	Pass
B7203SVIAL	NEBuffer™ 3.1	10041001	Pass

Assay Name/Specification	Lot # 10043922
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³ 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
Non-Specific DNase Activity (16 Hour) 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.



Doreen Duquette
Production Scientist
10 Apr 2019



Josh Hersey
Packaging Quality Control Inspector
31 May 2019