

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: 10130968
Expiration Date: 12/2023
Storage Temperature: -20°C
Storage Conditions: 50 mM KCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 0.32 mM S-adenosylmethionine (SAM), 50% Glycerol, 200 µg/ml BSA (pH 7.4 @ 25°C)
Specification Version: PS-R0545S v2.0

Bcgl Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0545SVIAL	Bcgl	10130967	Pass
B6003SVIAL	NEBuffer™ r3.1	10116057	Pass

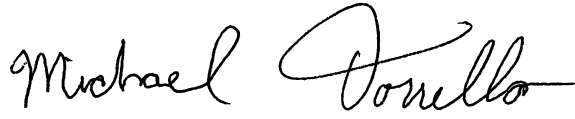
Assay Name/Specification	Lot # 10130968
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 20 units of Bcgl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	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.

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.



Penghua Zhang
Production Scientist
15 Dec 2021



Michael Tonello
Packaging Quality Control Inspector
15 Dec 2021