

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: Bglll
Catalog Number: R0144L
Concentration: 10,000 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: 10065426
Expiration Date: 02/2022
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-R0144S/L v2.0

BgIII Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0144LVIAL	BgIII	10065425	Pass	
B7203SVIAL	NEBuffer™ 3.1	10053974	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10059231	Pass	

Assay Name/Specification	Lot # 10065426
Protein Purity Assay (SDS-PAGE) BgIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	Pass
detection.	_
Blue-White Screening (Terminal Integrity)  A sample of LITMUS28i vector linearized with a 10-fold excess of BgIII, religated	Pass
and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	
Endonuclease Activity (Nicking)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 10 Units of BgIII incubated for 4 hours at 37°C results in <10%	
conversion to the nicked form as determined by agarose gel electrophoresis.	_
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 100 units of Bglll incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	rdss



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This product has been tested and shown to be in compliance with all specifications.

Penghaa Zhang Production Scientist

20 Feb 2020

Minichiello

Packaging Quality Control Inspector

06 Mar 2020



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