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## New England Biolabs Certificate of Analysis

Product Name: Bglll
Catalog Number: R0144S
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: 10108858
Expiration Date: 05/2023
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	
R0144SVIAL	BgIII	10108860	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10105817	Pass	
B6003SVIAL	NEBuffer™ r3.1	10103929	Pass	

Assay Name/Specification	Lot # 10108858
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and	Pass
double-stranded [ ³H] E. coli DNA and a minimum of 100 units of BgIII incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Endonuclease Activity (Nicking) 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.	Pass
Protein Purity Assay (SDS-PAGE) BgIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	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 100 Units of BgIII incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass



R0144S / Lot: 10108858

Page 1 of 2

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

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Penghua Zhang **Production Scientist** 

results in <1% white colonies.

25 Jun 2021

Michael Tonello

Packaging Quality Control Inspector

25 Jun 2021



R0144S / Lot: 10108858

Page 2 of 2