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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: 10124237
Expiration Date: 08/2023
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				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0144SVIAL	BgIII	10117630	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10121392	Pass	
B6003SVIAL	NEBuffer™ r3.1	10116057	Pass	

Assay Name/Specification	Lot # 10124237
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.	
Blue-White Screening (Terminal Integrity) A sample of LITMUS28i vector linearized with a 10-fold excess of BgIII, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Protein Purity Assay (SDS-PAGE) BgIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with BgIII, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with BgIII.	Pass



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

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Penghaa Zhang Production Scientist

22 Oct 2021

Michael Tonello

Packaging Quality Control Inspector

22 Oct 2021



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