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New England Biolabs Certificate of Analysis

Product Name: Bglll
Catalog Number: R0144M
Concentration: 50,000 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: 10060403
Expiration Date: 11/2021
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-R0144M v2.0

BgIII Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0144MVIAL	BgIII	10060402	Pass	
B7203SVIAL	NEBuffer™ 3.1	10053973	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10055732	Pass	

Assay Name/Specification	Lot # 10060403
Protein Purity Assay (SDS-PAGE)	Pass
BgIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
Non-Specific DNase Activity (16 Hour)	Pass
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.	
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 BgIII incubated for	
4 hours at 37°C releases <0.1% of the total radioactivity.	
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.	



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

can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments,

Anthony Francis Production Scientist

>95% can be recut with BgIII.

22 Nov 2019

Jay Minichiello

Packaging Quality Control Inspector

30 Dec 2019

