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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.

Lot Number: 10035425
Expiration Date: 01/2021
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-R0144S/L v2.0

BgIII Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0144LVIAL	BgIII	10035426	Pass
B7203SVIAL	NEBuffer™ 3.1	10033149	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021141	Pass

Assay Name/Specification	Lot # 10035425
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
Exonuclease Activity (Radioactivity Release) 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.	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
Protein Purity Assay (SDS-PAGE) BgIII is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass



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

Tony Spear-Alfonso Production Scientist

16 Jan 2019

Michael Tonello

Packaging Quality Control Inspector

20 Feb 2019

