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New England Biolabs Certificate of Analysis

Product Name: Btgl
Catalog Number: R0608S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of pBR322 DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10103337
Expiration Date: 03/2023
Storage Temperature: -20°C

Storage Conditions: 300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 500 μg/ml BSA

Specification Version: PS-R0608S/L v1.0

Btgl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0608SVIAL	Btgl	10102495	Pass	
B6004SVIAL	rCutSmart™ Buffer	10103711	Pass	

Assay Name/Specification	Lot # 10103337
Protein Purity Assay (SDS-PAGE) Btgl is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	Pass
detection.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pBR322 DNA and a minimum of 50 Units of Btgl 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 CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [3H] E. coli DNA and a minimum of 50 units of Btgl incubated for 4	
hours at 37°C releases <0.1% of the total radioactivity.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 20-fold over-digestion of pBR322 DNA with Btgl, >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 Btgl.	

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



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Penghua Zhang Production Scientist

14 Apr 2021

Michael Tonello

Packaging Quality Control Inspector

14 Apr 2021



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