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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 rCutSmart Buffer in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10172127
Expiration Date: 12/2024
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 300 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

500 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0608S v2.0

Btgl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0608SVIAL	BtgI	10172119	Pass	
B6004SVIAL	rCutSmart™ Buffer	10168648	Pass	

Assay Name/Specification	Lot # 10172127
Functional Testing (15 minute Digest) A 50 μl reaction in rCutSmart™ Buffer containing 1 μg of pBR322 DNA and 1 μl of Btgl	Pass
incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	
Ligation and Recutting (Terminal Integrity) 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.	Pass
Protein Purity Assay (SDS-PAGE) Btgl is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Non-Specific DNase Activity (16 Hour)	Pass
A 50 μl reaction in rCutSmart™ Buffer containing 1 μg of pBR322 DNA and a minimum of 30 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.	



R0608S / Lot: 10172127

Page 1 of 2

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

YunJie Suń Production Scientist

02 Dec 2022

Michael Tonello

Packaging Quality Control Inspector

09 Dec 2022



R0608S / Lot: 10172127

Page 2 of 2