

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name: BmgBl
Catalog Number: R0628S
Concentration: 10,000 U/ml

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

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

Lot Number: 10035874
Expiration Date: 02/2021
Storage Temperature: -20°C

Storage Conditions: 200 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0628S/L v1.0

BmgBl Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0628SVIAL	BmgBI	10035873	Pass	
B7203SVIAL	NEBuffer™ 3.1	10041001	Pass	

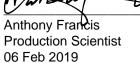
Assay Name/Specification	Lot # 10035874
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in NEBuffer 3.1 containing 1 μg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 50 units of BmgBl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity)  After a 10-fold over-digestion of Lambda DNA with BmgBI, ~75% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~50% can be recut with BmgBI.	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 50 Units of BmgBl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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



R0628S / Lot: 10035874

Page 1 of 2



Michael Tonello

Packaging Quality Control Inspector 03 Jun 2019



