

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: Nb.Btsl
Catalog Number: R0707S
Concentration: 10,000 U/ml

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

of supercoiled PhiX174 RF I DNA to open circular form in 1 hour at

37°C in a total reaction volume of 50 μl.

Lot Number: 10030086
Expiration Date: 11/2020
Storage Temperature: -20°C

Storage Conditions: 50 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-R0707S/L v2.0

Nb.Btsl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0707SVIAL	Nb.Btsl	10030087	Pass	
B7204SVIAL	CutSmart® Buffer	10021126	Pass	

Assay Name/Specification	Lot # 10030086
Exonuclease Activity (Radioactivity Release) 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 100 units of Nb.Btsl 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 CutSmart™ Buffer containing 1 μg of PhiX174 DNA and a minimum of 10 Units of Nb.Btsl 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) Nb.Btsl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass

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



R0707S / Lot: 10030086

Page 1 of 2

Penghua Zhang Production Scientist 28 Nov 2018

Michael Tonello

Packaging Quality Control Inspector

17 Dec 2018