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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: 10014998
Expiration Date: 07/2020
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	10014999	Pass	
B7204SVIAL	CutSmart® Buffer	10010632	Pass	

Assay Name/Specification	Lot # 10014998
Protein Purity Assay (SDS-PAGE)	Pass
Nb.Btsl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	
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	Pass
for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Non-Specific DNase Activity (16 Hour)	Pass
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.	

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



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Tony Spear-Alfonso Production Scientist 12 Jun 2018

Michael Tonello

Packaging Quality Control Inspector

13 Jul 2018