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New England Biolabs Certificate of Analysis

Product Name: Btsl-v2
Catalog Number: R0667S
Concentration: 10,000 U/ml

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

of Lambda DNA in 1 hour at 55°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10092082
Expiration Date: 11/2022
Storage Temperature: -20°C

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

200 μg/ml BSA (pH 7.4 @ 25°C)

Specification Version: PS-R0667S/L v2.0

Btsl-v2 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0667SVIAL	Btsl-v2	10091085	Pass	
B7204SVIAL	CutSmart® Buffer	10089402	Pass	

Assay Name/Specification	Lot # 10092082
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 50 units of Btsl-v2 incubated for	Pass
4 hours at 55°C releases <0.1% of the total radioactivity. Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BtsI-v2, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~75% can be recut with BtsI-v2.	Pass
Functional Testing (15 minute Digest) A 50 μl reaction in CutSmart® Buffer containing 1 μg of Lambda DNA and 1 μl of Btsl-v2 incubated for 15 minutes at 55°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in CutSmart® Buffer containing 1 μg of Lambda DNA and a minimum of 10 units of Btsl-v2 incubated for 16 hours at 55°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass



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Assay Name/Specification	Lot # 10092082
Protein Purity Assay (SDS-PAGE) BtsI-v2 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.

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.

Penghua Zhang Production Scientist

02 Dec 2020

Michael Tonello

Packaging Quality Control Inspector

02 Dec 2020

