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New England Biolabs Certificate of Analysis

Product Name: BtsI-v2
Catalog Number: R0667L
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: 10076395 Expiration Date: 06/2022 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	
R0667LVIAL	Btsl-v2	10076396	Pass	
B7204SVIAL	CutSmart® Buffer	10064409	Pass	

Assay Name/Specification	Lot # 10076395
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
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 4 hours at 55°C releases <0.1% of the total radioactivity.	Pass
Protein Purity Assay (SDS-PAGE) BtsI-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Functional Testing (15 minute Digest) A 50 μl reaction in CutSmart® Buffer containing 1 μg of Lambda DNA and 1 μl of BtsI-v2 incubated for 15 minutes at 55°C results in complete digestion as determined by agarose gel electrophoresis.	Pass



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

Penghaa Zhang Production Scientist

24 Jun 2020

Josh Hersey

Packaging Quality Control Inspector

24 Jun 2020

