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

Packaging Lot Number: 1010972
Expiration Date: 03/2023
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 v3.0

BtsI-v2 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0667LVIAL	BtsI-v2	10100837	Pass	
B6004SVIAL	rCutSmart™ Buffer	10107576	Pass	

Assay Name/Specification	Lot # 10109721
Protein Purity Assay (SDS-PAGE) BtsI-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
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 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass



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Assay Name/Specification	Lot # 10109721
Exonuclease Activity (Radioactivity Release)	Pass
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 BtsI-v2 incubated for	
4 hours at 37°C releases <0.1% of the total radioactivity.	

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 Jun 2021

Michael Tonello

Packaging Quality Control Inspector

02 Jun 2021



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