

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

Packaging Lot Number: 10152198
Expiration Date: 03/2024
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

Btsl-v2 Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0667SVIAL	BtsI-v2	10143746	Pass	
B6004SVIAL	rCutSmart™ Buffer	10149689	Pass	

Assay Name/Specification	Lot # 10152198
Protein Purity Assay (SDS-PAGE) BtsI-v2 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> 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
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 37°C releases <0.1% of the total radioactivity.	Pass



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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.

Pengha Zhang Production Scientist

02 Jun 2022

Erin Varney

Packaging Quality Control Inspector

02 Jun 2022



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