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New England Biolabs Certificate of Analysis

Product Name: BspCNI
Catalog Number: R0624S
Concentration: 2,000 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 25°C in a total reaction volume of 50 μl.

Lot Number: 1005354 Expiration Date: 08/2020 Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 μg/ml BSA

Specification Version: PS-R0624S/L v1.0

BspCNI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0624SVIAL	BspCNI	10053539	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10049759	Pass	
B7204SVIAL	CutSmart® Buffer	10046087	Pass	

Assay Name/Specification	Lot # 10053540
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 2 units of BspCNI incubated for 4 hours at 25°C releases <0.2% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of Lambda DNA with BspCNI, ~50% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with BspCNI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 6 Units of BspCNI incubated for 16 hours at 25°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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



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Production Scientist 09 Aug 2019

Jay Minichiello

Packaging Quality Control Inspector

21 Aug 2019