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

Packaging Lot Number: 10192637
Expiration Date: 05/2025
Storage Temperature: -20°C

Storage Conditions: 50 mM KCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 0.32 mM

S-adenosylmethionine (SAM), 50% Glycerol, 200 µg/ml BSA (pH 7.4 @

25°C)

Specification Version: PS-R0624S v2.0

BspCNI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0624SVIAL	BspCNI	10192636	Pass	
B6004SVIAL	rCutSmart™ Buffer	10182169	Pass	

Assay Name/Specification	Lot # 10192637
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 37°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 37°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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R0624S / Lot: 10192637

YunJie Sun \
Production Scientist 24 May 2023

Josh Hersey Packaging Quality Control Inspector 26 May 2023