

New England Biolabs Certificate of Analysis

Product Name: CspCI
Catalog Number: R0645S
Concentration: 5,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in rCutSmart Buffer in 1 hour at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10251924
Expiration Date: 08/2026
Storage Temperature: -20°C
Storage Conditions: 10 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 0.32 mM S-adenosylmethionine (SAM), 50% Glycerol, 200 µg/ml rAlbumin (pH 7.4 @ 25°C)
Specification Version: PS-R0645S/V v3.0

CspCI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0645SVIAL	CspCI	10255827	Pass
B6004SVIAL	rCutSmart™ Buffer	10245417	Pass

Assay Name/Specification	Lot # 10251924
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 50 units of CspCI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Functional Testing (15 minute Digest) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and 1 µl of CspCI incubated for 15 minutes at 37°C results in complete digestion as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in rCutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 5 units of CspCI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) CspCI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue	Pass

Assay Name/Specification	Lot # 10251924
detection.	

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

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Nancy Considine
Production Scientist
22 Aug 2024



Josh Hersey
Packaging Quality Control Inspector
26 Aug 2024