

## 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 1 hour at 37°C in a total reaction volume of 50 µl.  
**Packaging Lot Number:** 10058478  
**Expiration Date:** 11/2020  
**Storage Temperature:** -20°C  
**Storage Conditions:** 100 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA  
**Specification Version:** PS-R0645S/L v1.0

CspCI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0645SVIAL	CspCI	10058477	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10055450	Pass
B7204SVIAL	CutSmart® Buffer	10053983	Pass

Assay Name/Specification	Lot # 10058478
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> 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
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 µl reaction in CutSmart™ 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

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



Doreen Duquette  
Production Scientist  
01 Oct 2019



Jay Minichiello  
Packaging Quality Control Inspector  
02 Dec 2019