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New England Biolabs Certificate of Analysis

Product Name: CviKl-1
Catalog Number: R0710S
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of pBR322 DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Lot Number: 10046190
Expiration Date: 05/2021
Storage Temperature: -20°C

Storage Conditions: 50 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-R0710S/L v1.0

CviKI-1 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0710SVIAL	CviKI-1	10046191	Pass	
B7204SVIAL	CutSmart® Buffer	10042966	Pass	

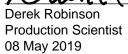
Assay Name/Specification	Lot # 10046190
Ligation and Recutting (Terminal Integrity)	Pass
After a 5-fold over-digestion of pBR322 DNA with CviKI-1, ~75% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments,	
>95% can be recut with CviKI-1.	
Non-Specific DNase Activity (16 hour)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pBR322 DNA and a minimum of	
5 Units of CviKI-1 incubated for 16 hours at 37°C results in a DNA pattern free of	
detectable nuclease degradation as determined by agarose gel electrophoresis. NOTE:	
although no nuclease degradation is detected under these conditions, extended	
incubations and/or high concentrations of this enzyme may result in star activity.	
See the product FAQ for recommended reaction conditions for this enzyme.	

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



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Michael Tonello

Packaging Quality Control Inspector 29 May 2019