

CciN I (Not I)

5'...GCGGCCGC...3'
3'...CGCCGGCG...5'

Product No : RE1248
Quantity : 100u



Lot :
Expiry Date :
Concentration : 5u/μl
Supplied with : 1ml of 10X Buffer V5
1ml of 10X Buffer UB
0.5ml Diluent Viva Buffer A
(BSA included in all Reaction Buffer)
Store at -20°C



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Reaction Conditions:

Buffer V5,

30mM Tris-acetate (pH 7.9 at 30°C), 10mM Mg-acetate, 60mM K-acetate, and 100μg/ml BSA.

Incubate at 37°C.

Dilution: Viva Buffer A

10mM Tris-HCl (pH 7.4 at 25°C), 50mM KCl, 0.1mM EDTA, 1mM DTT, 200μg/ml BSA and 50% glycerol.

Thermal Inactivation: 65°C for 20 minutes

Storage Buffer:

10mM Tris-HCl (pH 7.5), 100mM NaCl, 0.1mM EDTA, 7mM 2-mercaptoethanol, 200μg/ml BSA and 50% glycerol.

Unit Definition:

1u is defined as the amount of enzyme that is required to digest 1μg of DNA in 1 hour at 37°C in 50μl of assay buffer.

Quality Control Assays:

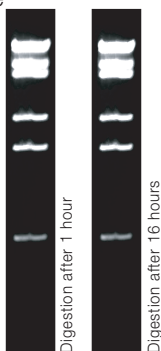
Ligation/ Recutting Assay:

After 5-fold overdigestion with **CciN I**, more than 90% of the DNA fragments can be ligated and recut.

Overdigestion assay:

An unaltered banding pattern was observed after 1μg of DNA was digested with 10u of **CciN I** for 16 hours at 37°C.

Ad2 DNA
0.7% Agarose



Activity in Reaction Buffer				
V1	V2	V3	V4	V5
50%	75%	75%	75%	100%

Buffer UB			
0.5X	1.0X	1.5X	2.0X
100%	75%	50%	100%

* Buffer UB is provided for double digestion purpose.

NOTE:

- * High enzyme concentration may result in **Star Activity**.
- * Blocked by CpG-methylation.
- * Total reaction volume dependent on experiment.
- * The amount of enzyme to be used is very much dependent on the DNA template.
- * For plasmid DNA, 5-10X more enzyme is required.

Example of Digestion Reaction

Enzyme : 1 unit
Ad2 DNA 0.3μg/μl : 3.33μl (1μg DNA)
10X Reaction Buffer : 5μl
Sterile Distilled Water : Up to 50μl

Product Use Limitation

This product is for research purposes and *in vitro* use only.