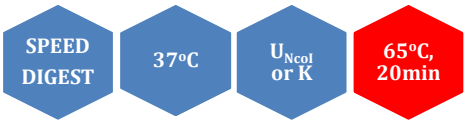
Nco I



5’ ···C▼CATGG···3’
3’ ···GGTAC▲C···5’

NcoI is a restriction enzyme purified from *Nocardia corallina*.

Catalogue No	*123-1, 1000 U* *123-2, 3x1000 U*
Concentration	*10-12u/µl and 40-60u/µl**

**Add an H to cat.# to order the high concentration*

Reagents supplied: 10x U_{NcoI} and 10x K buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 100 mM NaCl, 50 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM $MgCl_2$, 1 mM DTT, 0.02% Triton X-100, 100 µg/ml bovine serum albumin and DNA. Incubate at 37°C.

Absence of contaminants: 100 units of *Nco* I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA at 37°C. After 50-fold overdigestion with *Nco* I, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 µg/ml bovine serum albumin and 50% glycerol. Store at -20°C.

Heat inactivation: 65°C for 20 minutes**.**

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Not sensitive

Percent Activity in MINOTECH Buffers

L	M	H	SH	A	K
50-75	75-100	**100**	**100**	75	**100**

General reaction mixture:

10U NcoI	1µl
10x U_{NcoI} or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl

Incubate for 15 min at 37°C

**In the case of U_{NcoI} buffer we recommend the addition of BSA to a final concentration of 100 µg/ml.*

Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
4	20	0	0	0	0

Lambda DNA 0.7 % agarose

MINOTECH BIOTECHNOLOGY