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Nco I

Cat# RE0047/ RE0047L store at -20°C.

INTFORMATION

Product Name	Nco) l						
Cat NO.	RE0047/RE0047L							
Size	1,000 unit / 5,000 units							
Concentration	20,000 units/ml							
Recognition site	C√CATGG							
	GGTAC↑C							
Source	Bacillus species 19							
Enzyme activity (%)								
		В	G	0	W	Υ	ROSE	
		0-10	100	0-15	25-50	100	100	
Reaction Conditions	1X Buffer Y, BSA (100 μg/ml). Incubate at 37 oC							
1X SE-Buffer Y	Y (33 mM Tris-acetate (pH 7.9 at 25°C); 10 mM magnesium acetate; 66 mM potassium acetate; 1 mM DTT.)							
Heat Inactivation	Enzyme is inactivated by incubation at for 20 minutes.							
Optimal temperature	37oC							
Unit Definition	One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at in a total reaction volume of 50 μ l. To obtain 100% activity, BSA should be added to the 1x reaction mix to a final concentration of 100 μ g/ml							
Quality Control Assays : Ligation	After 20-fold overdigestion with Nco I, 95% of the DNA fragments can be ligated and recut.							
16-Hour Incubation	A 50 μ l reaction containing 1 μ g of DNA and 40 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour. No using BSA for long incubation							
Oligonucleotide Assay	No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 20 units of restriction endonuclease for 3 hours.							was
Enzyme Properties	When using a buffer other than the optimal (Supplied) Buffer, it may be necessary to add more enzymes to achieve complete digestion							
Reagents Supplied with Enzyme	10X Buffer Y, BSA (10 mg/ml)							
Ncol cuts hemi methylated site 5`-(5mC) CATGG-3`/3`-GGTACC-5		Dullel 1, D3A	(10 IIIR/ IIII)					

and doesn't cut methylated sites

5`-(5mC) CATGG-3`/3`-GGTAC(5mC)-5` and

5'-(4mC) CATGG-3'/3'-GGTAC(4mC)-5