Restriction Endonuclease

Kpn I

Recognition Sequence:	
L	E080 10,000 units
	,

For more details

scen the code

GGTAC1C CTCATGG

Lot:

SibEnzyme®





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CERTIFICATE OF ANALYSIS

Source: An E.coli strain that carries the cloned Kpn I gene from Klebsiella pneumonia.

Supplied in:

10 mM Tris-HCl (pH 7.5), 50 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:

1X SE-Buffer B, BSA (100 µg/ml). Incubate at 37° C.

1X SE-Buffer B (pH 7.6 @ 25° C): 10 mM Tris-HCl 1 mM DTT 10 mM MgCl,

Heat Inactivation:

Enzyme is inactivated by incubation at 80°C for 20 minutes.

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. To obtain 100% activity, BSA should be added to the 1 x reaction mix to a final concentration of 100 μ g/ml. High enzyme concentration may result in star activity. Long incubation with BSA is not recommended due to star activity.

Quality Control Assays

Ligation: After 20-fold overdigestion with Kpn I, ~90% of the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing in 1 µg of DNA and 20 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.

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.

Enzyme Properties:

When using a buffer other than the optimal (Supplied) SE-Buffer, it may be necessary to add more enzymes to achieve complete digestion.

Reagents Supplied with Enzyme: 10X SE Buffer B, BSA (10 mg/ml).

Not blocked by overlapping Dcm methylation (C^mCWGG): GGTACCWGG