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RESTRICTION ENDONUCLEASE			Product Datasheet				
Hinf I	↓ 5'GANTC3' 3'CTNAG5'	Produ Quan		: RE1278 : 1000u			
	t Lot : Expiry Date : Concentration : 20u/μl Supplied with : 1ml of 10X Buffer V3 1ml of 10X Buffer UB 0.5ml Diluent Viva Buffer A (BSA included in all Reaction Buffer) Store at -20°C						
		info@viva	antech	nologies.com			

Reaction Conditions:

Buffer V3, 50mM Tris-HCI (pH 7.5 at 30°C), 10mM MgCl₂, 100mM NaCI, 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, 200 μ g/ml BSA and 50% glycerol.

Thermal Inactivation: 80°C for 20 minutes

Storage Buffer:

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

Unit Definition:

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

Quality Control Assays:

Ligation/ Recutting Assay:

After 20-fold overdigestion with *Hinf* I, 90% of the DNA fragments can be ligated and recut.

Overdigestion assay:

An unaltered banding pattern was observed after $1\mu g$ of DNA was digested with 40u of <code>Hinf I</code> for 16 hours at 37°C.

Activity in Reaction Buffer						
V1	V2	V3	V4	V5		
50%	100%	100%	100%	50%		
0.5X	1.0X	1.5X	2.0X			
25%	50%	100%	100%	* Buff		

Buffer UB is provided for double digestion purpose.

NOTE:

- * 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 ReactionEnzyme: 1 unitLambda 0.3μg/μl: 3.33μl (1μg DNA)10X Reaction Buffer: 5μlSterile Distilled Water: Up to 50μl

Product Use Limitation

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



