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RESTRICTION ENDONUCLEASE		Product Datasheet	
Pct I	↓ 5' GAATGCN 3' 3' CTTACGN 5'	Product No : RE1310 Quantity : 400u	
(Bsm I)	Supplied with : 1	0u/μl ml 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@vivantechnologies.com	

Reaction Conditions:

Buffer V3, 50mM Tris-HCl (pH 7.5 at 30°C), 10mM MgCl₂, 100mM NaCl, 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 μg /ml BSA and 50% glycerol.

Thermal Inactivation: 65°C for 20 minutes

Storage Buffer:

10mM Tris-HCl (pH 7.5), 250mM NaCl, 0.1mM EDTA, 7mM 2-mercaptoethanol, 100µg/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 $37^{\circ}C$ in 50μ l of assay buffer.

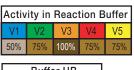
Quality Control Assays:

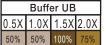
Ligation/ Recutting Assay:

After 20-fold overdigestion with *Pct* 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 *Pct* I for 16 hours at 37°C.





* Buffer UB is provided for double digestion purpose.

NOTE:

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- * 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	
Lambda 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.

λ DNA 1.2% Agarose

