vvant	0			
RESTRICTION ENDONUCLEASE			Prod	uct Datasheet
Fok I	5'GGAT0 3'CCTA0		Product No Quantity	: RE1270 : 150u
		: 1ml of 1ml of 0.5ml I SA included in	10X Buffer Ul Diluent Viva B	B uffer A
			info@vivantec	hnologies.com

# Reaction Conditions:

vivantis

Buffer V2, 10mM Tris-HCl (pH 7.5 at 30°C), 10mM MgCl<sub>2</sub>, 50mM 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 $\mu g$ /ml BSA and 50% glycerol.

## Thermal Inactivation: 65°C for 20 minutes

#### Storage Buffer:

10mM Tris-HCl (pH 7.5), 200mM NaCl, 0.1mM EDTA, 7mM 2-mercaptoethanol, 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 $\mu l$  of assay buffer.

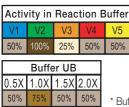
## Quality Control Assays:

## Ligation/ Recutting Assay:

After 1-fold overdigestion with *Fok* I, more than 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 2u of Fok I for 16 hours at 37°C.



 $^{\ast}$  Buffer UB is provided for double digestion purpose.

## NOTE:

\* Overdigestions of more than 2u of *Fok* I per 1µg of DNA and incubation times more than 2 hours are NOT recommended.

- \* 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.

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λDNA

0.7% Agarose