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RESTRICTION END	DONUCLEASE	Product Datasheet		
AspLE I (Hha I)	↓ 5' <b>GCGC</b> 3' 3' <b>CGCG</b> 5'	Product No : RE1130 Quantity : 500u		
		10u/µl 1ml of 10X Buffer V3 1ml of 10X Buffer UB		
¢	( <mark>BSA i</mark> Store at -20°C	0.5ml Diluent Viva Buffer A ncluded in all Reaction Buffer)		
		info@vivantechnologies.com		

# Reaction Conditions:

Buffer V3, 50mM Tris-HCI (pH 7.5 at 30°C), 10mM MgCl<sub>2</sub>, 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 $\mu$ g/ml BSA and 50% glycerol.

# Thermal Inactivation: None

#### Storage Buffer:

10mM Tris-HCI (pH 7.5), 100mM 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°C in 50 $\mu l$  of assay buffer.

### Quality Control Assays:

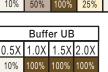
#### Ligation/ Recutting Assay:

After 10-fold overdigestion with *AspLE 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 20u of **AspLE I** for 16 hours at 37°C.

Activity in Reaction Buffer					
V1	V2	V3	V4	V5	
10%	50%	100%	25%	10%	



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

### NOTE:

- \* Blocked by CpG-methylation.
- \* 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				
Enzym	:	1 unit		
Lambda 0.3µg/µl	:	3.33µl (1µg DNA)		
	:			
Sterile Distilled Water	:	Up to 50µl		

Product Use Limitation

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

