v <i>i</i> vant <i>i</i> s							
RESTRICTION E	RESTRICTION ENDONUCLEASE			Product Datasheet			
Dra III	5'CACNNNG 3'GTGNNNC		Product No Quantity	: RE1256 : 200u			
	Lot Expiry Date Concentration Supplied with (BSA in Store at -20°C	: 1ml 1ml 0.5n	l of 10X Buffe of 10X Buffe nl Diluent Viv all Reaction I	r UB a Buffer A			
		i	nfo@vivantech	nologies.com			
Reaction Conditions:							

Reaction Conditions:

Buffer Dra III, 10mM Tris-HCI (pH 7.6), 10mM MgCl₂, 200mM KCI, and 100µg/mI 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, 200μg/ml BSA and 50% glycerol.

Thermal Inactivation: 65°C for 20 minutes

Storage Buffer:

10mM Tris-HCI (pH 7.5), 200mM KCI, 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 μl of assay buffer.

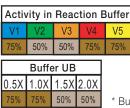
Quality Control Assays:

Ligation/ Recutting Assay:

After 5-fold overdigestion with **Dra III**, 70% 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 10u of **Dra III** for 16 hours at 37°C.



* Buffer UB is provided for double digestion purpose.

NOTE:

- * High enzyme concentration may result in Star Activity.
- * Total reaction volume dependent on experiment.
- ^t 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)		
5X Reaction Buffer	:	10µl		
Sterile Distilled Water	:	Up to 50µl		

Product Use Limitation This product is for research purposes and *in vitro* use only. V \vec{l} V a n t \vec{l} S | www.vivantechnologies.com

λ DNA 1.0% Agarose

after 1 hour