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RESTRICTION ENDONUCLEASE			Product Datasheet	
BseX3 I	↓ 5'CGGCC 3'GCCGG		Product No : RE1178 Quantity : 100u	
(Xma III)	Lot t	:		
50°C		: 1ml 1ml 0.5	ı/μl   of 10X Buffer V3   of 10X Buffer UB ml Diluent Viva Buffer A  in all Reaction Buffer)	
Store at -70°C for period longer than 30 days				
			info@vivantechnologies.com	

# **Reaction Conditions:**

Buffer V3, 50mM Tris-HCl (pH 7.5 at 30°C), 10mM MgCl<sub>2</sub>, 100mM NaCl, and 100μg/ml BSA. Incubate at 50°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 8.2), 100mM NaCl, 0.1mM EDTA, 7mM 2-mercaptoethanol, 200µg/mI BSA and 50% glycerol.

## Unit Definition:

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

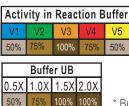
## Quality Control Assays:

## Ligation/ Recutting Assay:

After 10-fold overdigestion with **BseX3** I, more than 90% of the DNA fragments can be ligated and of these 80% can be recut.

## Overdigestion assay:

An unaltered banding pattern was observed after  $1\mu g$  of DNA was digested with 20u of **BseX3 I** for 16 hours at 50°C.



\* 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 Reaction				
Enzyme	:	1 unit		
Lambda 0.3µg/µl	:	3.33µl (1µg DNA)		
Lambda 0.3µg/µl 10X Reaction Buffer	:	5µl		
Sterile Distilled Water	:	Up to 50µl		

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

λ DNA 0.7% Agarose

hour

after

stion after 16 hours