V*i*Vant*i*S RESTRICTION ENDONUCLEASE

Product Datasheet

: 200u

RV1246



5'...**TCGCGA**...3' 3'...**AGCGCT**...5'

1

1

Lot Expiry Date Concentration Supplied with

5u/µl
1ml of 10X Buffer V4
1ml of 10X Buffer UB
0.5ml Diluent Viva Buffer A

info@vivantechnologies.com

Product No :

Quantity

(BSA included in all Reaction Buffer)

Store at -20°C

Reaction Conditions:

Buffer V4 , 10mM Tris-HCl (pH 8.5 at 30°C), 10mM MgCl₂, 100mM KCl, and 100 μ g/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, 200μg/ml BSA and 50% glycerol.

Thermal Inactivation: None

Storage Buffer:

10mM Tris-HCI (pH 7.5), 250mM NaCl, 0.1mM EDTA, 7mM 2-mercaptoethanol, 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:

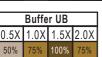
Ligation/ Recutting Assay:

After 5-fold overdigestion with *BtuM* **I**, about 50% of the DNA fragments can be ligated and recut and of these 90% can be recut.

Overdigestion assay:

An unaltered banding pattern was observed after $1\mu g$ of DNA was digested with 10u of **BtuM I**, for 16 hours at 37°C.

Activity in Reaction Buffer						
V1	V2	V3	V4	V5		
50%	100%	100%	100%	75%		
Duffer UD						



* Buffer UB is provided for double digestion purpose.

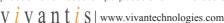
NOTE:

- * Blocked by overlapping dam-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 ReactionEnzyme: 1 unitLambda (dam⁻ & dcm⁻) 0.3µg/µl: 3.33µl (1µg DNA)10X Reaction Buffer: 5µlSterile Distilled Water: Up to 50µl

Product Use Limitation

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



(dam⁻ & dcm⁻) 0.7% Agarose

λDNA

