v i v a n t i s

RESTRICTION ENDONUCLEASE

Product Datasheet



5'...CCRYGG...3' 3'...**GGYRCC**...5' Product No: RE1214 Quantity



Lot **Expiry Date**

Concentration $10u/\mu l$

Supplied with 1ml of 10X Buffer V5 1ml of 10X Buffer UB

0.5ml Diluent Viva Buffer A

(BSA included in all Reaction Buffer)

Store at -20°C



info@vivantechnologies.com

λDNA 1.2% Agarose

Reaction Conditions:

Buffer V5

30mM Tris-acetate (pH 7.9 at 30°C), 10mM Mg-acetate, 60mM K-acetate, and 100µg/ml BSA.

Incubate at 65°C.

Dilution: Viva Buffer A

10mM Tris-HCI (pH 7.4 at 25°C), 50mM KCI, 0.1mM EDTA,

1mM DTT, 200µg/ml BSA and 50% glycerol.

Thermal Inactivation: None

Storage Buffer:

10mM Tris-HCI (pH 7.5), 100mM KCI, 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 1µg of DNA in 1 hour at 65°C in 50µl of assay buffer.

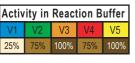
Quality Control Assays:

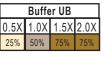
Ligation/ Recutting Assay:

After 10-fold overdigestion with BstDS I, 95% of the DNA fragments can be ligated and recut.

Overdigestion assay:

An unaltered banding pattern was observed after 1µg of DNA was digested with 20u of BstDS I for 16 hours at 65°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

3.33µl (1µg DNA) Lambda 0.3µg/µl

10X Reaction Buffer 5_ul

Sterile Distilled Water Up to 50µl

> Product Use Limitation This product is for research purposes and in vitro use only.

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