v i v a n t i s

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Product Datasheet

Zra I (Aat II*)

5'...GACGTC...3' 3'...CTGCAG...5' Product No **RE1368** Quantity 100u



Lot **Expiry Date**

Concentration 10u/μl Supplied with 1ml of 10X Buffer UB

0.5ml Diluent Viva Buffer A

(BSA included in all Reaction Buffer)

Store at -20°C



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Reaction Conditions:

Buffer 1X UB,

25mM Tris-acetate (pH 7.6 at 30°C), 10mM Mg-acetate, 100mM K-acetate, 7mM 2-Mercaptoethanol and 50µg/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 μ g/ml BSA and 50% glycerol.

Thermal Inactivation: 80°C for 20 minutes

Storage Buffer:

10mM Tris-HCl (pH 7.5), 50mM NaCl, 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 $1\mu g$ of DNA in 1 hour at $37^{\circ} C$ in $50\mu l$ of assay buffer.

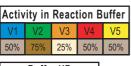
Quality Control Assays:

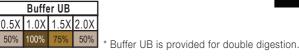
Ligation/ Recutting Assay:

After 10-fold overdigestion with Zra I, 90% 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 Zra I for 16 hours at 37°C.





NOTE:

* High enzyme concentration may result in Star Activity.

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)

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 I V a n t I S | www.vivantechnologies.com

 λ DNA 0.7% Agarose

