v i v a n t i s

RESTRICTION ENDONUCLEASE

Product Datasheet

Zsp2 I Ava III)

5'...**ATGCAT**...3' 3'...**TACGTA**...5' Product No : RE1370 Quantity : 600u

Expiry Date

 $10u/\mu l$ Concentration

1ml of 10X Buffer V1 Supplied with 1ml of 10X Buffer UB 0.5ml Diluent Viva Buffer A

(BSA included in all Reaction Buffer)

Store at -20°C

info@vivantechnologies.com

Reaction Conditions:

Buffer V1,

10mM Tris-HCl (pH 7.5 at 30°C), 10mM MgCl₂,

and 100µg/ml BSA. Incubate at 37°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: 65°C for 20 minutes

Storage Buffer:

10mM Tris-HCl (pH 7.5), 200mM KCl, 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 37°C in 50μl of assay buffer.

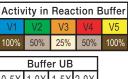
Quality Control Assays:

Ligation/ Recutting Assay:

After 20-fold overdigestion with Zsp2 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 40u of Zsp2 I for 16 hours at 37°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)

10X Reaction Buffer

Sterile Distilled Water Up to 50µl

Product Use Limitation

This product is for research purposes and in vitro use only. V i V a 11 t i S | www.vivantechnologies.com

λDNA

0.7% Agarose