Product Datasheet



5'...ACCGGT...3' 3'...TGGCCA...5' Product No : RE1126 Quantity : 100u

Lot Expiry Date

Concentration : $5u/\mu l$ Supplied with : 1mlc

1ml of 10X Buffer V3 1ml of 10X Buffer UB

0.5ml Diluent Viva Buffer A

(BSA included in all Reaction Buffer)



info@vivantechnologies.com

λ DNA 0.7% Agarose

Reaction Conditions:

Buffer V3,

50mM Tris-HCl (pH 7.5 at 30°C), 10mM MgCl $_2$, 100mM NaCl, and 100 μ g/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), 250mM KCl, 0.1mM EDTA, 7mM 2-mercaptoethanol, 100μg/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.

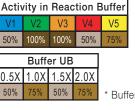
Quality Control Assays:

Ligation/ Recutting Assay:

After 5-fold overdigestion with $\textit{AsiG}\ I,\,90\%$ of the DNA fragments can be ligated and recut.

Overdigestion assay:

An unaltered banding pattern was observed after $1\mu g$ of DNA was digested with 10u of $\textit{AsiG}\ I$ 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 $0.3\mu g/\mu l$: $3.33\mu l$ ($1\mu g$ DNA)

10X Reaction Buffer : 5แ

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