Product Datasheet



5'...CATATG...3' 3'...GTATAC...5' Product No: RE1266 Quantity: 500u



Lot Expiry Date

Concentration : 10u/µl Supplied with : 1ml of

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



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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 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: 65°C for 20 minutes

Storage Buffer:

10mM Tris-HCl (pH 7.5), 50mM KCl, 0.1mM EDTA, 7mM 2-mercaptoethanol, 200 μ g/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:

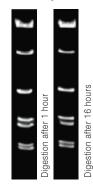
Ligation/ Recutting Assay:

After 10-fold overdigestion with *FauND I*, 60% 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 20u of FauND I for 16 hours at 37°C.

Activity in Reaction Buffer					
V1	V2	V3	V4	V5	
50%	75%	50%	75%	100%	
Buffer UB					
0.5X	1.0X	1.5X	2.0X		
75%	75%	50%	50%	* But	ffe



λ DNA

0.7% Agarose

Buffer UB is provided for double digestion purpose.

NOTE:

* Sensitive to impurities present in some DNA preparation.

* 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.