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Product Datasheet



#### 5'...**CGCG**...3' 3'...**GCGC**...5' **t** Lot Expiry Date

Expiry Date Concentration Supplied with Product No : RE1220 Quantity : 100u

2u/μl 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 60°C.

## Dilution: Viva Buffer A

10mM Tris-HCl (pH 7.4 at 25°C), 50mM KCl, 0.1mM EDTA, 1mM DTT, 200 $\mu g/ml$  BSA and 50% glycerol.

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# Thermal Inactivation: None

### Storage Buffer:

20mM Tris-HCI (pH 7.5), 300mM NaCl,10mM MgCl2 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 60°C in 50 $\mu$ l of assay buffer.

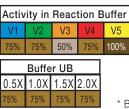
# Quality Control Assays:

#### Ligation/ Recutting Assay:

After 2-fold overdigestion with **BstFN 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 4u of **BstFN I** for 16 hours at 60°C.



\* Buffer UB is provided for double digestion purpose.

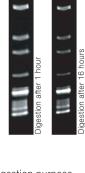
# NOTE:

- \* Blocked by CpG-methylation.
- \* 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.



λ DNA 1.2% Agarose