V *i* V a n t *i* S RESTRICTION ENDONUCLEASE

Product Datasheet

Product No : RE1280 Quantity : 200u

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Hpa I

3'...CAATTG...5' t Lot : Expiry Date : Concentration : 5 Supplied with :

5'...GTTÅAC...3'

n : 5u/µl 1 : 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



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-HCI (pH 7.5), 50mM NaCl, 0.1mM EDTA, 1mM DTT 200 μ g/ml BSA and 50% glycerol.

Unit Definition:

1 u is defined as the amount of enzyme that is required to digest 1µg of DNA in 1 hour at 37° C in 50μ l of assay buffer.

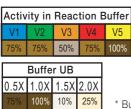
Quality Control Assays:

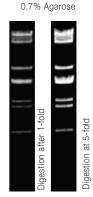
Ligation/ Recutting Assay:

After 5-fold overdigestion with *Hpa* I, more than 70% of the DNA fragments can be ligated and recut.



Star Activity is observed at greater than 5-fold over digestion of $1\mu g$ substrate with *Hpa* I.





λ DNA

* 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 ReactionEnzyme: 1 unitLambda 0.3μg/μl: 3.33μl (1μg DNA)10X Reaction Buffer: 5μlSterile Distilled Water: Up to 50μl

Product Use Limitation

This product is for research purposes and in vitro use only.