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RESTRICTION ENDONUCLEASE

Product Datasheet

PspE I 5'...GGTNACC...3'
(BstE II)

Product No: RE1316 Quantity : 500u

V5BH (

Lot Expiry Date

Concentration : 20u/µl
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, 200µg/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, 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 $37^{\circ}C$ in $50\mu l$ of assay buffer.

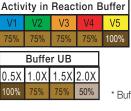
Quality Control Assays:

Ligation/ Recutting Assay: After 10-fold overdigestion w

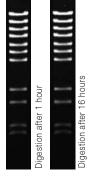
After 10-fold overdigestion with *PspE I*, more than 90% of the DNA fragments can be ligated and recut.

Overdigestion assay:

An unaltered banding pattern was observed after $1\mu g$ of DNA was digested with 20u of **PspEI** for 16 hours at 37°C.



λ DNA 0.7% Agarose



* Buffer UB is provided for double digestion purpose.

NOTE:

- * High enzyme concentration may result in Star Activity.
- * 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 DNA $0.3\mu g/\mu l$: $3.33\mu l$ ($1\mu g$ 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.