Product Datasheet



5'...CCTNNNNNAGG...3' 3'...GGANNNNNTCC...5' (EcoN I)

Product No.: RE1216

Quantity

Lot **Expiry Date**

Concentration $2u/\mu l$

Supplied with 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 1X UB,

25mM Tris-acetate (pH 7.6 at 30°C), 10mM Mg-acetate, 100mM K-acetate, 7mM 2-Mercaptoethanol and 50μg/ml BSA. Incubate at 65°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: 80°C for 20 minutes

Storage Buffer:

10mM Tris-HCI (pH 7.5), 50mM KCI, 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 1μg of DNA in 1 hour at 65°C in 50μl of assay buffer.

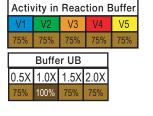
Quality Control Assays:

Ligation/ Recutting Assay:

After 2-fold overdigestion with BstEN I, more than 60% of the DNA fragments can be ligated and of these 90% recut.

Overdigestion assay:

An unaltered banding pattern was observed after 1μg of DNA was digested with 4u of BstEN I for 16 hours at 65°C.



λ DNA 0.7% Agarose

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 0.3µg/µl : 3.33µl (1µg DNA)

10X Reaction Buffer : 5µl

Sterile Distilled Water : Up to 50µl

Product Use Limitation