RESTRICTION ENDONUCLEASE

Lot

Product Datasheet



5'...**ATTTAAAT**...3'

Product No: RE1338 Quantity : 500u



3'...**TAAATTTA**...5'

Expiry Date Concentration $10u/\mu l$

Supplied with 1ml of 10X Buffer V3

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 V3,

50mM Tris-HCI (pH 7.5 at 30°C), 10mM MgCl₂, 100mM NaCl 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-HCI (pH 7.5), 250mM NaCI, 0.1mM EDTA, 7mM 2-mercaptoethanol, 100µg/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 37°C in 50µl of assay buffer.

Quality Control Assays:

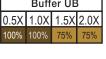
Ligation/ Recutting Assay:

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

Overdigestion assay:

An unaltered banding pattern was observed after 1μg of DNA was digested with 20u of Smi I for 16 hours at 37°C.

Activity in Reaction Buffer				
V1	V2	V3	V4	V5
50%	50%	100%	75%	25%
Buffer UB				
0 EV	1 AV	1 EV	2 0	



^{*} 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 Reaction

1 unit Enzyme

: 3.33µl (1µg DNA) T7 (Ssp | Digest) 0.3μg/μl

10X Reaction Buffer : 5µl

Sterile Distilled Water : Up to 50µl

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

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Product Use Limitation