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RESTRICTION ENDONUCLEASE

Product Datasheet

(Xmn I)

MroX 1 5'...GAANNNTTC...3' 3'...**CTTNNNNAAG**...5'

: RE1300 Product No Quantity : 300u

I ot **Expiry Date**

Concentration 10u/μl Supplied with

: 1ml of 10X Buffer V4 1ml of 10X Buffer UB 0.5ml Diluent Viva Buffer A

(BSA included in all Reaction Buffer)



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λ DNA

0.7% Agarose

Reaction Conditions:

Buffer V4,

10mM Tris-HCI (pH 8.5 at 30°C), 10mM MgCl₂, 100mM KCI, and 100µg/ml BSA.

Incubate at 37°C.

Dilution: Viva Buffer A

10mM Tris-HCI (pH 7.4 at 25°C), 50mM KCI, 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), 200mM NaCl, 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 37°C in 50μl of assay buffer.

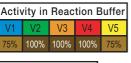
Quality Control Assays:

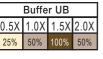
Ligation/ Recutting Assay:

After 10-fold overdigestion with MroX I, 50% 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 MroX I for 16 hours at 37°C.





* 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.



Enzyme 1 unit

Lambda 0.3µg/µl 3.33µl (1µg DNA)

10X Reaction Buffer 5μΙ

Sterile Distilled Water Up to 50µl :

> Product Use Limitation This product is for research purposes and in vitro use only.