v*i*vant*i*s RESTRICTION ENDONUCLEASE

Product Datasheet

Product No. : RE1294 Quantity : 500u



Mlu I

3'....**TGCGCA**...5' Lot

5'....**ACGCGT**....3'

1

Expiry Date Concentration Supplied with

20u/µl 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-HCI (pH 7.4 at 25°C), 50mM KCI, 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), 100mM 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.

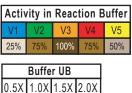
Quality Control Assays:

Ligation/ Recutting Assay:

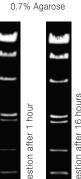
After 10-fold overdigestion with Mlu I, more than 90% of the DNA fragments can be ligated and recut.

Overdigestion assay:

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



100%



λDNA

* Buffer UB is provided for double digestion purpose.

NOTE

50%

- * 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

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