Product Datasheet

: 200u

Product No: RE1306

MspA 1 I (NspB II)



5'...CMGCKG...3' 3'...GKCGMC...5'

I ot **Expiry Date**

Concentration 5u/μl Supplied with

1ml of 10X Buffer V5 1ml of 10X Buffer UB

0.5ml Diluent Viva Buffer A

Quantity

(BSA included in all Reaction Buffer)

Store at -20°C

Store at -70°C for period longer than 30days.



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λDNA

0.7% Agarose

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:

20mM Tris-HCI (pH7.6), 300mM NaCl, 0.1mM EDTA, 7mM 2-mercaptoethanol,10mM MgCl₂, 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.

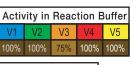
Quality Control Assays:

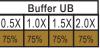
Ligation/ Recutting Assay:

After 5-fold overdigestion with MspA 1 I, 60% of the DNA fragments can be ligated and recut.

Overdigestion assay:

An unaltered banding pattern was observed after 1µg of DNA was digested with 10u of MspA 1 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.

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.

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