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Product Datasheet



Hpa II

5'...**ccgg**...3' 3'...**GGCC**...5'

Product No: RE1282 Quantity : 500u

Lot Expiry Date

Concentration $10u/\mu l$ Supplied with

1ml of 10X Buffer V1 1ml of 10X Buffer UB 0.5ml Diluent Viva Buffer A (BSA included in all Reaction Buffer)



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Reaction Conditions:

Buffer V1,

10mM Tris-HCl (pH 7.5 at 30°C), 10mM MgCl₂, 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: None

Storage Buffer:

10mM Tris-HCI (pH 7.5), 50mM NaCl, 0.1mM EDTA, 1mM DTT, 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.

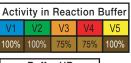
Quality Control Assays:

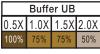
Ligation/ Recutting Assay:

After 10-fold overdigestion with *Hpa II*, more than 95% 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 Hpa II for 16 hours at 37°C.





^{*} Buffer UB is provided for double digestion purpose.

NOTE:

- * Blocked by CPG-methylation.
- 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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λDNA