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RESTRICTION ENDONUCLEASE

Product Datasheet



Reaction Conditions:

Buffer V2, 10mM Tris-HCI (pH 7.5 at 30°C), 10mM MgCl₂, 50mM NaCl and 100µg/ml BSA. Incubate at 50°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 7.6), 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 50°C in 50µl of assay buffer.

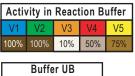
Quality Control Assays:

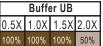
Ligation/ Recutting Assay:

After 10-fold overdigestion with Sfi I, 70% 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 Sfi I for 16 hours at 50°C.





* Buffer UB is provided for double digestion purpose.

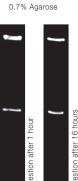
NOTE:

- Blocked by dcm-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				
T7 0.3μg/μl 10X Reaction Buffer	:	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.



1 hou

after 1

T7 DNA

