vivantis

RESTRICTION ENDONUCLEASE

Product Datasheet

Sse9 I (TspE I)

5'...AATT...3'
3'...TTAA...5'

Product No : RE1342
Quantity : 200u

Lot :
Expiry Date :
Concentration : 5u/µl
Supplied with : 1ml of 10X Buffer V1
1ml of 10X Buffer UB
0.5ml Diluent Viva Buffer A
(BSA included in all Reaction Buffer)

Store at -20°C

info@vivantechnologies.com

Reaction Conditions:
Buffer V1 ,
10mM Tris-HCl (pH 7.5 at 30°C), 10mM $MgCl_2$,
and 100µg/ml BSA.
Incubate at 55°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:
10mM Tris-HCl (pH 7.5), 200mM NaCl, 0.1mM EDTA,
7mM 2-mercaptoethanol , 100µg/ml BSA and 50% glycerol.

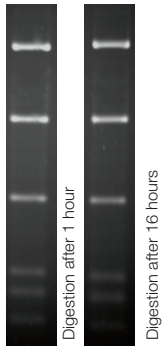
Unit Definition:
1u is defined as the amount of enzyme that is required to digest 1µg of DNA in 1 hour at 55°C in 50µl of assay buffer.

Quality Control Assays:

Ligation/ Recutting Assay:
After 5-fold overdigestion with ***Sse*9 I**, 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 10u of ***Sse*9 I** for 16 hours at 55°C.

pBR322 DNA
1.4% Agarose



Activity in Reaction Buffer				
V1	V2	V3	V4	V5
100%	75%	25%	50%	75%

Buffer UB			
0.5X	1.0X	1.5X	2.0X
75%	50%	25%	10%

* Buffer UB is provided for double digestion purpose.

NOTE:
* Overdigestion in Buffer V2 and V5 will cause ***Star Activity***.
* 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
pBR322 DNA 0.3µg/µl	:	3.33µl (1µg DNA)
10X Reaction Buffer	:	5µl
Sterile Distilled Water	:	Up to 50µl