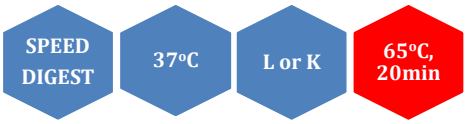
Sst I (Sac I isoschizomer)



5’ ···GAGCT▼C···3’
3’ ···C▲TCGAG···5’

SstI is a restriction enzyme purified from *Streptomyces stanford*.

Catalogue No — *140-1, 2000 U*
140-2, 3x2000 U

Concentration — *10-12u/µl and 40-60u/µl**

**Add an H to cat.# to order the high concentration*

Reagents supplied: 10x L and 10x K buffer

Unit substrate: Lambda DNA (HindIII digest).

Unit calculation assay conditions: 10 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM MgCl2, 1 mM dithiothreitol, 100 µg/ml bovine serum albumin and DNA. Incubate at 37°C.

Absence of contaminants: 100 units of *Sst*I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of λ DNA/*Hind*III digest at 37°C. After 50-fold overdigestion with *Sst*I, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 50 mM NaCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 µg/ml BSA and 50% glycerol. Store at -20°C

Heat inactivation: 65°C for 20 minutes.

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Not sensitive

Percent Activity in MINOTECH Buffers

L	M	H	SH	A	K
100	25-50	25	<10	50	**100**

General reaction mixture:

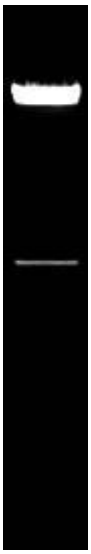
10U SstI	1µl
10x L or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl

Incubate for 15 min at 37°C

**In the case of L buffer we recommend the addition of BSA to a final concentration of 100 µg/ml.*

Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
2	16	0	1	1	0



Lambda DNA 0.7 % agarose

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