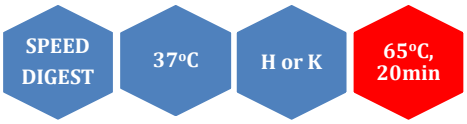
Ssp I



5’ ···AAT▼ATT···3’
3’ ···TTA▲TAA···5’

SspI is a restriction enzyme purified from *Sphaerotilus* species.

Catalogue No	*139-1, 1000 U* *139-2, 3x1000 U*
Concentration	*10-12u/µl and 40-60u/µl**

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

Reagents supplied: 10x H and 10x K buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 100 mM NaCl, 50 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml BSA. Incubate at 37°C.

Absence of contaminants: 30 units of *Ssp*I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of λ DNA at 37°C. After 10-fold overdigestion with *Ssp*I, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 50 mM KCl, 10 mM Tris-HCl (pH 8.0), 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

Star activity: Conditions of low ionic strength, high enzyme concentration, glycerol concentration >5%, or pH>8.0 may result in star activity.

Percent Activity in MINOTECH Buffers

L	M	**H**	SH	A	**K**
10-25	50-75	**100**	75-100	50	**100**

General reaction mixture:

10U SspI	1µl
10x H 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 H 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
20	5	1	1	6	1

Lambda DNA 1.0 % agarose

MINOTECH BIOTECHNOLOGY