



Data Sheet (28.11.2007)

Ssp I

5' ...AATATT...3'
3' ...TTATAA...5'

Source: *Sphaerotilus* species

Cat.-No.	Size	Conc.
mi-E0139S	600 units	10 u/μl
mi-E0139L	3,000 units	10 u/μl

Buffer supplied: 10x B3 (incl. BSA)

BSA is now already included into the buffer without any loss of performance!

Substrate for unit definition: λ DNA (20 sites)

Reaction conditions:

100 mM NaCl, 50 mM Tris-HCl (pH 7.9), 10 mM MgCl₂, 1 mM dithiothreitol, 100 μg/ml BSA.

Incubate at **37 °C**.

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. Avoid warming to 0 °C or higher.

Under these storage conditions, a guarantee of 12 months after delivery is given.

Ligation and recutting:

After 10-fold overdigestion with Ssp I, > 95 % of the DNA fragments can be ligated and recut with this enzyme.

Star activity:

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

Heat inactivation: 65 °C for 20 minutes