

Ssp I

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

Source: *Sphaerotilus* species.

Cat.-No.	Size	Conc.
EN-139	25,000 units	10 u/μl

Buffer supplied: 10x B3 and 10x BSA.

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.

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.