

Data Sheet (28.11.2007)

Sma I 5' ...**CCCGGG**...3'
3' ...**GGGCCC**...5'

Source: *Serratia marcescens*

Cat.-No.	Size	Conc.
mi-E0135S	1,100 units	10 u/μl
mi-E0135L	5,500units	10 u/μl

Buffer supplied: 10x B5 (incl. BSA)

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

Substrate for unit definition:

λ DNA, *Hind* III digest (3 sites)

Reaction conditions:

50 mM potassium acetate, 20 mM Tris-acetate (pH 7.9), 10 mM magnesium acetate, 1 mM dithiothreitol, 100 μg/ml BSA.

Incubate at **25 °C**.

Storage buffer:

50 mM KCl, 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. 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 *Sma* I, > 95 % of the DNA fragments can be ligated and recut with this enzyme.

Heat inactivation: 65 °C for 20 minutes