

Data Sheet (28.11.2007)

# Sph I

5' ...GCATGC...3'  
3' ...CGTACG...5'

Source: *Streptomyces phaeochromogenes*

Cat.-No.	Size	Conc.
mi-E0137S	250 units	10 u/μl
mi-E0137L	1,250 units	10 u/μl

**Buffer supplied: 10x B2 (incl. BSA)**

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

**Substrate for unit definition:** λ DNA (1 site)

**Reaction conditions:**

50 mM NaCl, 10 mM Tris-HCl (pH 7.9), 10 mM MgCl<sub>2</sub>, 1 mM dithiothreitol, 100 μg/ml BSA.

Incubate at **37 °C**.

**Storage buffer:**

100 mM KCl, 10 mM Tris-HCl (pH 7.4) 0.1 mM EDTA, 1 mM dithiothreitol, 400 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 *Sph* I, > 98 % of the DNA fragments can be ligated and recut with this enzyme.

**Heat inactivation:** 65 °C for 20 minutes