



Data Sheet (28.11.2007)

Kpn I

5' ...GGTACC...3'
3' ...CCATGG...5'

Source: *Klebsiella pneumoniae* OK8

Cat.-No.	Size	Conc.
mi-E0119S	3,500 units	10 u/μl
mi-E0119L	17,500 units	10 u/μl

Buffer supplied: 10x Kpn I (incl. BSA)

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

Substrate for unit definition:

λ DNA, *EcoR* I digest (2 sites)

Reaction conditions:

10 mM Tris-HCl (pH 7.0), 10 mM MgCl₂, 1 mM dithiothreitol, 0.01 % Triton X-100, 100 μg/ml BSA. Incubate at **37 °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 *Kpn* 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: No