



Data Sheet (18.06.2010)

# Pst I



Source: An *E. coli* strain that carries the cloned *Pst I* gene from *Providencia stuartii*

Cat.-No.	Size	Conc.
mi-E0127S	8,000 units	10 u/μl
mi-E0127L	40,000 units	10 u/μl

**Buffer supplied: 10x *Pst I* (incl. BSA)**

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

**Substrate for unit definition:** λ DNA (28 sites)

**Reaction conditions:**

100 mM NaCl, 50 mM Tris-HCl (pH 7.4), 10 mM MgCl<sub>2</sub>, 1 mM dithiothreitol, 100 μg/ml BSA.

Incubate at **37 °C**.

**Storage buffer:**

200 mM NaCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 μg/ml BSA, 0.15 % Triton X-100, 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 *Pst I*, > 95 % of the DNA fragments can be ligated and recut with this enzyme.

**Star activity:**

Conditions of high enzyme concentration or glycerol concentration > 12 % may result in star activity.

**Heat inactivation:** 80 °C for 20 minutes