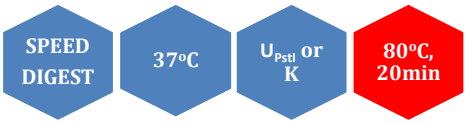
Pst I



5’ ···CTGCA▼G···3’
3’ ···G▲ACGTC···5’

PstI is a restriction enzyme purified from a recombinant *E.coli* strain.

Catalogue No	*127-1, 10000 U* *127-2, 3x10000 U*
Concentration	*10-12u/µl and 40-60u/µl**

**Add an H to cat.# to order the high concentration*

Reagents supplied: 10x U_{PstI} and 10x K buffer.

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 100 mM NaCl, 50 mM Tris-HCl (pH 7.4 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml bovine serum albumin and DNA. Incubate at 37°C.

Absence of contaminants: 200 units of *Pst* I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA at 37°C. After 100-fold overdigestion with *Pst* I, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 200 mM NaCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 µg/ml bovine serum albumin, 0.15% Triton X-100 and 50% glycerol. Store at -20°C.

Heat inactivation: 80°C for 20 minutes.

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Not sensitive

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

Percent Activity in MINOTECH Buffers

L	M	H	SH	A	**K**
10-25	50-75	75-100	50-75	50	**100**

General reaction mixture:

10U PstI	1µl
10x U_{PstI} or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl
Incubate for 15 min at 37°C	

**In the case of U_{PstI} buffer we recommend the addition of BSA to a final concentration of 100 µg/ml.*

Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
28	30	1	1	1	1

Lambda DNA 1.0 % agarose

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