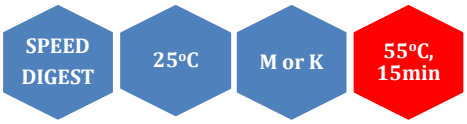
PspP I (Sau96 I isoschizomer)



5' ···G▼GNCC···3'
3' ···CCNG▲G···5'

PspPI is a restriction enzyme purified from *Psychrobacter immobilis TA137*.

Catalogue No	*126-1, 1500 U* *126-2, 3x1500 U*
Concentration	*10-12u/µl and 40-60u/µl**

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

Reagents supplied: 10x M and 10x K buffer.

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml bovine serum albumin and DNA. Incubate at 25°C.

Absence of contaminants: 80 units of *Psp*P I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA at 25°C. After 50-fold overdigestion with *Psp*P I, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

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

Heat inactivation: 55°C for 15 minutes..

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Blocked by overlapping
CpG methylation: Blocked by overlapping

Note: Incubation at 37°C results in 60% activity.

Reference: Rina, M., Caufrier, F., Mavromatis, K., Markaki, M., Kokkinidis, M. and Bouriotis, V. (1997) Gene, 197, 353-360.

Percent Activity in MINOTECH Buffers

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

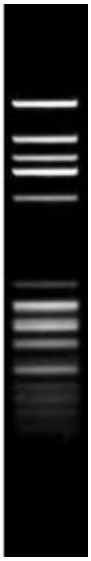
General reaction mixture:

10U PspPI	1µl
10x M or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl
Incubate for 15 min at 25°C	

**In the case of M 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
74	164	2	6	4	15



Lambda DNA 1.0 % agarose

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