



The ENZYME Company

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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Pst I	Pst I	CTGCA [^] G G [^] ACGTC	239040	4000 units
			239200	20000 units

Lot-number:	Assayed:	Quantity:

Origin	E.coli strain that carries Pst I gene from Providencia stuartii
Concentration	20000-100000, u.a./ml
Storage conditions	10 mM Tris-HCl (pH 7.5); 200 mM NaCl; 0,1 mM EDTA; 1 mM DTT; 200 ug/ml BSA; 50% glycerol. Store at -20°C.
Ligation	After 20-fold overdigestion with enzyme 90% of the DNA fragments can be ligated and recut.
Non-specific activity	No nonspecific activity was detected after incubation of 1 ug of DNA with 60 u.a. of enzyme for 16 hours at 37°C.
Optimum temperature	37 °C
Optimum SE-buffer	O (50 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl ₂ ; 100 mM NaCl; 1 mM DTT + 100 ug/ml BSA) + BSA

Enzyme activity in % of maximum :

B	G	O	W	Y
10 - 25	25 - 50	100	25 - 50	25 - 50

Note: High enzyme concentration may result in star activity.

To obtain 100% activity, BSA should be added to the 1 x reaction mix to a final concentration of 100 ug/ml.

References: Smith, D.I., Blattner, F.R., Davies, J. Nucleic Acids Res. 3: 343-353 (1976).

Unit-definition	One unit of the enzyme is the amount required to hydrolyze 1 µg of DNA in 1 hour in a total reaction volume of 50 µl. Concentrated enzymes are diluted to approximately 1000 units/ml with the buffer (10mM Tris-HCL (ph7.6); 50 mM KCL; 0,1 mM EDTA; 1 mM DTT; 200 µg/ml BSA; 50% glycerol) before determining their activity.
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