



**The ENZYME Company**

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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<b>Hpa II</b>	Hpa II	C <sup>^</sup> CGG GGC <sup>^</sup> C	226005	500 units
			226025	2500 units

Lot-number:	Assayed:	Quantity:

<b>Origin</b>	E.coli strain, that carries gene Hpa II from Haemophilus parainfluenzae
<b>Concentration</b>	5000-10000, u.a./ml
<b>Storage conditions</b>	10 mM Tris-HCl (pH 7.5); 50 mM NaCl; 0,1 mM EDTA; 1 mM DTT; 100 ug/ml BSA; 50% glycerol; Store at -20°C.
<b>Ligation</b>	After 10-fold overdigestion with enzyme more than 95% of the DNA fragments can be ligated and recut.
<b>Non-specific activity</b>	No nonspecific activity was detected after incubation of 1 ug of DNA with 10 u.a. of enzyme for 16 hours at 37°C.
<b>Optimum temperature</b>	37 °C
<b>Inactivation 20 minutes under 65 °C</b>	Yes
<b>Optimum SE-buffer</b>	<b>B</b> (10 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl <sub>2</sub> ; 1 mM DTT.)

**Enzyme activity in % of maximum :**

B	G	O	W	Y
100	50 - 75	10 - 25	25 - 50	50 - 75

**References:** Sharp, P.A., Sugden, B., Sambrook, J. Biochemistry 12: 3055-3063 (1973).

<b>Unit-definition</b>	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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