



***The ENZYME Company***

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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<b><u>Kzo9 I</u></b>	Mbo I	^GATC CTAG^	229002	200 units
			229010	1000 units

Lot-number:	Assayed:	Quantity:

<b>Origin</b>	Kurthia zopfii 9
<b>Concentration</b>	1000-5000, u.a./ml
<b>Storage conditions</b>	10 mM Tris-HCl (pH 7.5); 50 mM KCl; 0,1 mM EDTA; 7 mM 2-mercaptoethanol; 200 ug/ml BSA; and 50% glycerol; Store at -20°C.
<b>Ligation</b>	After 5-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 2 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>G</b> (10 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl <sub>2</sub> ; 50 mM NaCl; 1 mM DTT.)

**Enzyme activity in % of maximum :**

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

**Note:** Not bloked by overlapping Dam methylation (G<sup>m</sup>ATC): **GATC**

**References:** Degtyarev, S.Kh., Rechkunova, N.I., Grinev, A.A., Dedkov, V.S., Izv.Sib.Otd.Akad.Nauk SSSR 15: 25-26 (1989).

<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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