



**The ENZYME Company**

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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Acc113 I	Sca I	AGT^ACT TCA^TGA	259006	600 units
			259030	3000 units

Lot-number:	Assayed:	Quantity:

<b>Origin</b>	Acinetobacter calcoaceticus 113
<b>Concentration</b>	4000, units/ml
<b>Storage conditions</b>	10 mM Tris-HCl (pH 7.5); 50 mM KCl; 0,1 mM EDTA; 10 mM 2-mercaptoethanol; 50% glycerol Store at -20°C.
<b>Assayed on</b>	Lambda DNA
<b>Ligation</b>	After 5-fold overdigestion with the enzyme more than 80% 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 $\lambda$ DNA with 1 $\mu$ l of the enzyme for 16 hours
<b>Optimum temperature</b>	37 °C
<b>Inactivation 20 minutes under 65 °C</b>	Yes
<b>Optimum SE-buffer</b>	Y (33 mM Tris-acetate (pH 7.9 )); 10 mM magnesium acetate; 66 mM potassium acetate; 1 mM DTT.)

**Enzyme activity in % of maximum :**

B	G	O	W	Y
50 - 75	25 - 50	0 - 10	0 - 10	100

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

**References:** Nadeev, A.N., Kileva, E.V., Popichenko, D.V., Dedkov, V.S., Degtyarev, S.K. Unpublished observations.(2003)

<b>Unit-definition</b>	One unit of the enzyme is the amount required to hydrolyze 1 $\mu$ g of DNA in 1 hour in a total reaction volume of 50 $\mu$ l. 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 $\mu$ g/ml BSA; 50% glycerol) before determining their activity.
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