



***The ENZYME Company***

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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Rsa I	Rsa I	GT <sup>^</sup> AC CA <sup>^</sup> TG	241010	1000 units
			241050	5000 units

Lot-number:	Assayed:	Quantity:

<b>Recognition site</b>	GT <sup>^</sup> AC
<b>Origin</b>	Rhodopseudomonas sphaeroides
<b>Concentration</b>	10000-30000, u.a./ml
<b>Storage conditions</b>	10 mM Tris-HCl (pH 7.5); 100 mM NaCl; 0,1 mM EDTA; 7 mM 2-mercaptoethanol; 100 ug/ml BSA, 50% glycerol. Store at -20°C.
<b>Assayed on</b>	Lambda DNA
<b>Ligation</b>	After 20-fold overdigestion with enzyme more than 90% 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 40 u.a. of enzyme for 16 hours at 37°C.
<b>Optimum temperature</b>	37 °C
<b>Inactivation 20 minutes</b>	80°C
<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.)
<b>Methylation sensitivity</b>	not tested

**Enzyme activity in % of maximum :**

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

**References:**

Lynn, S.P., Cohen, L.K., Kaplan, S., Gardner, J.F. J.Bacteriol. 142: 380-383 (1980).

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