



The ENZYME Company

Enzyme	Prototype	Recognition Sequence	Cat No.	Package, u.a.
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Sal I	Sal I	G [^] TCGAC CAGCT [^] G	242020	2000 units
			242100	10000 units

Lot-number:	Assayed:	Quantity:

Origin	Streptomyces albus
Concentration	10000-20000, u.a./ml
Storage conditions	10 mM Tris-HCl (pH 7.5); 50 mM KCl; 0,1 mM EDTA; 7 mM 2-mercaptoethanol; 200 ug/ml BSA; 50% glycerol. Store at -20°C.
Ligation	After 20-fold overdigestion with enzyme more than 95% of the DNA pUC19 fragments can be ligated and recut.
Non-specific activity	No nonspecific activity was detected after incubation of 1 ug of DNA with 10 u.a. of enzyme for 16 hours at 37°C.
Optimum temperature	37 °C
Inactivation 20 minutes under 65 °C	Yes
Optimum SE-buffer	O (50 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl ₂ ; 100 mM NaCl; 1 mM DTT.)

Enzyme activity in % of maximum :

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

Note: High enzyme concentration may result in star activity.

References: Arrand, J.R., Myers, P.A., Roberts, R.J., J. Mol. Biol. 118: 113-122 (1978).

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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Bioron GmbH

Contact: Phone: +49-(0)-621- 5720 915 Fax:+49-(0)-621-5720 916
E-Mail: info@bioron.net NET: www.bioron.net