



The ENZYME Company

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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BssNA I	Sna I	GTA [^] TAC CAT [^] ATG	272010	1000 units
			272050	5000 units

Lot-number:	Assayed:	Quantity:

Origin	Bacillus stearothermophilus NA
Concentration	10000-30000, u.a./ml
Storage conditions	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.
Ligation	After 10-fold overdigestion with enzyme more than 90% of DNA pBR322 fragments can be ligated and recut.
Non-specific activity	No nonspecific activity was detected after incubation of 1 ug of DNA with 20 u.a. of enzyme for 16 hours at 37°C.
Optimum temperature	37 °C
Optimum SE-buffer	W (10 mM Tris-HCl (pH 8.5 at 25°C); 10 mM MgCl ₂ ; 100 mM NaCl; 1 mM DTT. + 100ug/ml BSA) + BSA

Enzyme activity in % of maximum :

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

Note: High enzyme concentration may result in star activity

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

References: Shinkarenko, N.M., Dedkov, V.S., Shevchenko, A.V., Abdurashitov, M.A., Degtyarev, S.K. Unpublished observations (1996).

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