



The ENZYME Company

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
--------	-----------	----------------------	--------	---------------

Bse21 I	Sau I	CC [^] TNAGG GGANT [^] CC	269005	500 units
			269025	2500 units

Lot-number:	Assayed:	Quantity:

Origin	Bacillus species 21
Concentration	10000-30000, u.a./ml
Storage conditions	10 mM KH ₂ PO ₄ (pH 7.4); 50 mM KCl; 0.1 mM EDTA; 7 mM 2-mercaptoethanol; 200 ug/ml BSA; 50% glycerol. Store at -20°C.
Ligation	After 2-fold overdigestion with enzyme about 50% of DNA fragments can be ligated by using of high concentration T4 DNA ligase with presence of 10% PEG. Of these more than 90% can be recut.
Non-specific activity	No nonspecific activity was detected after incubation of 1 ug of DNA with 30 u.a. of enzyme for 16 hours at 37°C.
Optimum temperature	37 °C
Optimum SE-buffer	Y (33 mM Tris-acetate (pH 7.9 at 25°C); 10 mM magnesium acetate; 66 mM potassium acetate; 1 mM DTT.)

Enzyme activity in % of maximum :

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

References: Degtyarev, S.Kh., Rechkunova, N.I., Repin, V.E., Kolyhalov, A.A., Netesov, S.V. Izv. Sib. Otd. Akad. Nauk SSSR 1: 138-139 (1990).

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.
------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Bioron GmbH

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