



The ENZYME Company

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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Bse8 I	BsaB I	GATNN [^] NNATC CTANN [^] NNTAG	270010	1000 units
			270050	5000 units

Lot-number:	Assayed:	Quantity:

Origin	Bacillus species 8
Concentration	5000-20000, 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 5-fold overdigestion with enzyme about 80% of the DNA fragments can be ligated and recut.
Non-specific activity	Long incubation not recommended owing to occurrence of star activity
Optimum temperature	60 °C
Optimum SE-buffer	G (10 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl ₂ ; 50 mM NaCl; 1 mM DTT.)

Enzyme activity in % of maximum :

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

Note: High enzyme concentration (more than 5-fold overdigestion on 1 ug substrate) may result in star activity.

References: Repin, V.E., Serov, G.D., Puchkova, L.I., Tereshenko, T.A., Lebedev, L.R., Chigikov, V.E. Bioorg. Khim. 19: 583-585 (1993).

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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