



The ENZYME Company

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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Bst4C I	Tsp4C I	ACN <sup>^</sup> GT TG <sup>^</sup> NCA	216002	200 units
			216010	1000 units

Lot-number:	Exp.-Date:	Quantity:

Origin	Bacillus stearothermophilus 4C
Concentration	10000, units/ml
Storage conditions	10 mM Tris-HCl (pH 7.5); 200 mM NaCl; 0.1 mM EDTA; 7 mM 2-mercaptoethanol; 200 ug/ml BSA; 50% glycerol. Store at -20°C.
Ligation	After 5-fold overdigestion with enzyme less than 10% of DNA fragments can be ligated.
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 65°C.
Optimum temperature	65 °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
75 - 100	75 - 100	10 - 25	25 - 50	100

References: Shinkarenko, N.M., Schevchenko, A.V., Dedkov, V.S., Abdurashitov, M.A., Degtyarev, S.K. Unpublished observations (1997).

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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