



The ENZYME Company

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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Sse9 I	Tsp509 I	^AATT TTAA^	249001	100 units
			249005	500 units

Lot-number:	Assayed:	Quantity:

Origin	Sporosarcina species
Concentration	2000-10000, u.a./ml
Storage conditions	10 mM Tris-HCl (pH 7.5); 50 mM NaCl; 10 mM MgCl ₂ ; 0.1 mM EDTA; 1 mM DTT; 200 ug/ml BSA; 50% glycerol. Store at -20°C.
Ligation	After 5-fold overdigestion with enzyme more than 95% of the DNA 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 55°C.
Optimum temperature	55 °C
Inactivation 20 minutes under 65 °C	Yes
Optimum SE-buffer	B (10 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl ₂ ; 1 mM DTT + 100ug/ml BSA.) + BSA

Enzyme activity in % of maximum :

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

Note: At 37°C activity is 30% from maximum.

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

References: Gonchar, D.A., Dedkov, V.S., Verkhozina, V.A., Kusner, Yu.S., Shevchenko, A.V., Degtyarev, S.Kh. Prikl. Biokhim. Mikrobiol. 34: 139-141 (1998).

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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