



The ENZYME Company

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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AspS9 I	Sau96 I	G [^] GNCC CCNG [^] G	263010	1000 units
			263050	5000 units

Lot-number:	Assayed:	Quantity:

Origin	Arthrobacter species S9
Concentration	10000-30000, u.a./ml
Storage conditions	10 mM Tris-HCl (pH 7.5); 50 mM KCl; 0.1 mM EDTA; 7 mM 2-mercaptoethanol; 200 µg/ml BSA; 50% glycerol; Store at -20°C.
Ligation	After 20-fold overdigestion with enzyme more than 90% of the DNA fragments can be ligated and recut.
Non-specific activity	No nonspecific activity was detected after incubation of 1 µg of DNA with 30 u.a. of enzyme for 16 hours at 37°C.
Optimum temperature	37 °C
Inactivation 20 minutes under 65 °C	Yes
Optimum SE-buffer	W (10 mM Tris-HCl (pH 8.5 at 25°C); 10 mM MgCl ₂ ; 100 mM NaCl; 1 mM DTT.)

Enzyme activity in % of maximum :

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

Note: Bloked by overlapping Dcm methylation(C^mCWGG): GGNCCWGG
References: Dedkov, V.S., Kileva, E.V., Shevchenko, A.V., Degtyarev, S.Kh. Unpublished observations (1995).

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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