



*The ENZYME Company*

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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AsuNH I	Nhe I	G <sup>^</sup> CTAGC CGATC <sup>^</sup> G	211005	500 units
			211025	2500 units

Lot-number:	Assayed:	Quantity:

Origin	Actinobacillus suis NH
Concentration	10000-20000, u.a./ml
Storage conditions	10 mM Tris-HCl (pH 7.5); 250 mM NaCl; 0.1 mM EDTA; 7 mM 2-mercaptoethanol; 100 ug/ml BSA; 50% glycerol. Store at -20°C
Ligation	After 10-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 ug of DNA with 20 u.a. of enzyme for 16 hours at 37°C
Optimum temperature	37 °C
Inactivation 20 minutes under 65 °C	Yes
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 + 100 ug/ml BSA.) + BSA

Enzyme activity in % of maximum :

B	G	O	W	Y
75 - 100	50 - 75	0 - 10	0 - 10	100

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

References: Dedkov, V.S., Degtyarev, S.Kh. Biol. Chem. 379: 573-574 (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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