



***The ENZYME Company***

Enzyme	Prototype	Recognition Sequence	Cat No	Package, u.a.
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Mlu I	Mlu I	A <sup>^</sup> CGCGT TGCGC <sup>^</sup> A	230010	1000 units
			230050	5000 units

Lot-number:	Exp.-Date:	Quantity:
SI12	01.2008	1000 units

<b>Origin</b>	Micrococcus luteus
<b>Concentration</b>	20000, units/ml
<b>Storage conditions</b>	10 mM Tris-HCl (pH 7.5); 100 mM NaCl; 0.1 mM EDTA; 7 mM 2-mercaptoethanol; 200 ug/ml BSA; 50% glycerol; Store at -20°C.
<b>Ligation</b>	After 10-fold overdigestion with enzyme 90% of the DNA fragments can be ligated and recut.
<b>Non-specific activity</b>	No nonspecific activity was detected after incubation of 1 ug of DNA with 20 u.a. of enzyme for 16 hours at 37°C.
<b>Optimum temperature</b>	37 °C
<b>Inactivation 20 minutes under 65 °C</b>	Yes
<b>Optimum SE-buffer</b>	<b>O</b> (50 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl <sub>2</sub> ; 100 mM NaCl; 1 mM DTT.)

**Enzyme activity in % of maximum :**

B	G	O	W	Y
0 - 10	10 - 25	100	25 - 50	10 - 25

**References:** Sugisaki, H., Kanazawa, S. Gene 16: 73-78 (1981).

<b>Unit-definition</b>	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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