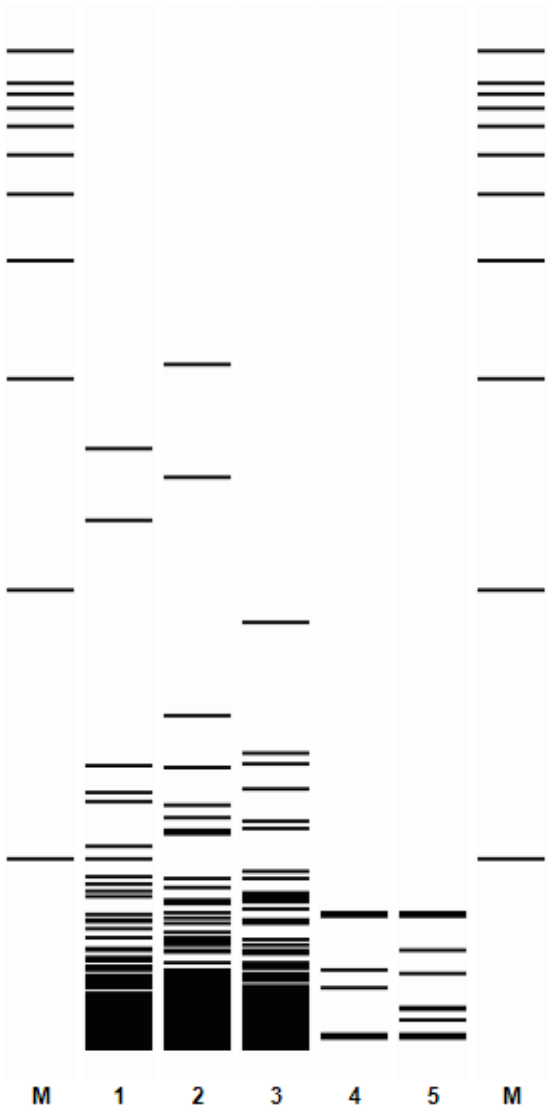
Mbo II

Cat# RE0471/RE0472– 200 u.a./1000 u.a.

Storage -20°C for 3 years powder | -80°C for 6 months in solvent

INTFORMATION

Product Name	Mbo II
Cat NO.	RE0471/RE0472
Size	200 u.a./1000 u.a.
Concentration	5000 u.a./mL
Recognition site	GAAGA$(N)_8$↑ CTTCT$(N)_7$↓
Source	An E.coli strain, that carries the cloned gene Mbo II from Moraxella bovis
Assayed on	Lambda DNA (dam-)
Unit definition	One unit of the enzyme is the amount required to hydrolyze 1 µg of Lambda DNA (dam-) in 1 hour at 37°C in a total reaction volume of 50 µl.
Optimal 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 (%)	B: 75 - 100; G: 75 - 100; O: 25 - 50; W: 50 - 75; Y: 100; Rose: 50
Optimal temperature	37°C
Storage buffer	10 mM Tris-HCl (pH 7.5); 50 mM NaCl; 0,1 mM EDTA; 1 mM DTT; 200 µg/ml BSA; 50% glycerol. Store at -20°C.
Reagents Supplied with Enzyme	10 X SE-buffer Y
Ligation	After 5-fold overdigestion with enzyme approximately 60% of the DNA fragments can be ligated and recut. In presence of 10%PEG ligation is better.
Non-specific hydrolisis	No nonspecific activity was detected after incubation of 1 µg of Lambda DNA with 5 u.a. of enzyme for 16 hours at 37°C.
Methylation sensitivity	Blocked by overlappin dam-methylation(G^mATC): **GAAGA**TC.
Inactivation	20 minutes under 65°C.
References	Brown N.L., Hutchison C.A. III, Smith M. J. Mol. Biol. 140: 143-148 (1980).



M - ladder, **1** - Adeno-2 DNA, **2** - Lambda DNA, **3** - T7 DNA, **4** - pUC19, **5** - pBR322

Theoretical diagrams of DNA digestion by this enzyme for the most known DNA substrates:

To view the fragments length values please point mouse cursor over diagram

Fragment lengths

PRODUCT USE LIMITATION

These products are intended for research use only.