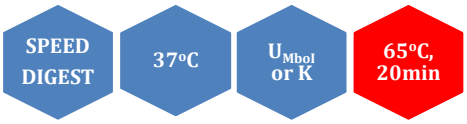
Mbo I



5’ ···▼GATC···3’
3’ ···CTAG▲···5’

MboI is a restriction enzyme purified from *Moraxella bovis* (ATCC 10900).

Catalogue No — *120-1, 500 U*
120-2, 3x500 U

Concentration — *10-12u/µl and 40-60u/µl**

**Add an H to cat.# to order the high concentration*

Reagents supplied: 10x U_{MboI} and 10x K buffer.

Unit substrate: Lambda DNA (dam^-).

Unit calculation assay conditions: 100 mM KCl, 10 mM Tris-HCl (pH 8.0 @ 25°C), 10 mM $MgCl_2$, 1mM dithiothreitol, 100 µg/ml BSA. Incubate at 37°C.

Absence of contaminants: 20 units of *Mbo* I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of λ DNA (dam^-) at 37°C. After 10-fold overdigestion with *Mbo* I, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 µg/ml BSA and 50% glycerol. Store at -20°C.

Heat inactivation: 65°C for 20 minutes..

Methylation Sensitivity:
dam methylation: Blocked
dcm methylation: Not sensitive
CpG methylation: Impaired by overlapping

Percent Activity in MINOTECH Buffers

L	M	H	SH	A	**K**
50-100	50-100	50-100	50	50-100	**100**

General reaction mixture:

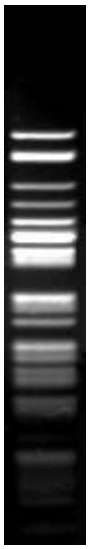
10U MboI	1µl
10x U_{MboI} or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl

Incubate for 15 min at 37°C

**In the case of U_{MboI} buffer we recommend the addition of BSA to a final concentration of 100 µg/ml.*

Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
116	87	0	15	7	22



Lambda DNA 1.4 % agarose

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