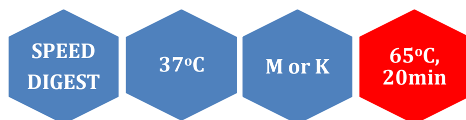
Xba I



5' ···T▼CTAGA···3'
3' ···AGATC▲T···5'

XbaI is a restriction enzyme purified from *Xanthomonas badrii*.

<u>Catalogue No</u> *143-1, 4000 U*
143-2, 3x4000 U

<u>Concentration</u> *10-12u/μl and 40-60u/μl**

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

Reagents supplied: 10x M and 10x K buffer

Unit substrate: Lambda DNA (*dam*$^-$/*Hind*III digest).

Unit calculation assay conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 μg/ml BSA. Incubate at 37°C.

Absence of contaminants: 200 units of *Xba*I do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of λ DNAdam$^-$/HindIII digest at 37°C. After 100-fold overdigestion with *Xba*I, greater than 98% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 100 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol , 500 μg/ml BSA and 50% glycerol. Store at -20°C.

Heat inactivation: 65°C for 20 minutes.

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

Percent Activity in MINOTECH Buffers

L	**M**	H	SH	A	**K**
50-75	**100**	75	75	75	**100**

General reaction mixture:

10U XbaI	1μl
10x M 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 M 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
1	5	0	1	1	0

Lambda DNA (dam$^-$) 0.7 % agarose

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