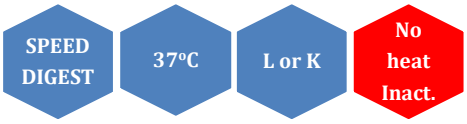
ApaL I



5’ ···G▼TGCAC···3’
3’ ···CACGT▲G···5’

ApaL I is a restriction enzyme purified from *Acetobacter pasteurianus* (ATCC 12875).

Catalogue No — *148-1, 2000 U*
148-2, 3x2000 U

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

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

Reagents supplied: 10x L and 10x K buffer

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 10 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM MgCl2, 1 mM dithiothreitol, 100 µg/ml bovine serum albumin and DNA. Incubate at 37°C.

Absence of contaminants: 100 units of ApaL I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of lambda DNA at 37°C. After 100-fold overdigestion with ApaL I, greater than 98% 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 bovine serum albumin and 50% glycerol. Store at -20°C.

Heat inactivation: No.

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

Percent Activity in MINOTECH Buffers

L	M	H	SH	A	K
100	**100**	10	<10	10-25	**100**

General reaction mixture:

10U ApaL I	1µl
10x L 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 L 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
4	7	1	3	0	3

Lambda DNA 0.7% agarose

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