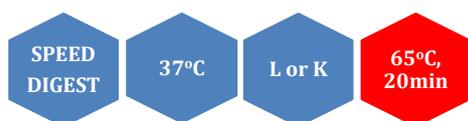


AluI



5'...AG▼CT...3'

3'...TC▲GA...5'

AluI is a restriction enzyme purified from *Arthrobacter luteus* (ATCC 21606)

Catalogue No 101-1, 1000 U
 101-2, 3x1000 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: 50 units of AluI do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of lambda DNA at 37°C. After 10-fold overdigestion with Alu I, greater than 95% 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, 200 μg/ml bovine serum albumin and 50% glycerol. Store at -20°C.

Heat inactivation: 65°C for 20 minutes.

Methylation Sensitivity:

dam methylation: Not sensitive

dcm methylation: Not sensitive

CpG methylation: Not sensitive

Percent Activity in MINOTECH Buffers

L	M	H	SH	A	K
100	100	75	10-25	75	100

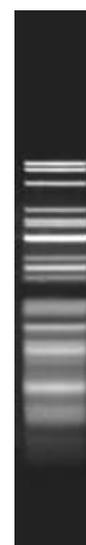
General reaction mixture:

10U AluI 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
143	158	24	16	27	17



Lambda DNA 1.4% agarose