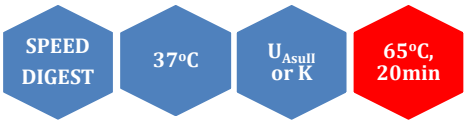
Asu II (isoschizomer)



5’ ···TT▼CGAA···3’
3’ ···AAGC▲TT···5’

Asu II is a restriction enzyme purified from an isolated strain (#94S).

Catalogue No	*102-1, 3000 U* *102-2, 3x3000 U*
Concentration	*10-12u/µl and 40-60u/µl**

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

Reagents supplied: 10x U_{AsuII} and 10x K buffer

Unit substrate: Lambda DNA (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, 0.1% Triton X-100, 100 µg/ml BSA. Incubate at 37°C.

Absence of contaminants: 100 units of *Asu*II do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of λ DNA/*Hind* III digest at 37°C. After 50-fold overdigestion with *Asu*II, 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 7.9@ 25°C), 0.1 mM EDTA, 1 mM dithiothreitol, 0.15% Triton X-100, 200 µg /ml BSA 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: Blocked

Percent Activity in MINOTECH Buffers

L	**M**	H	SH	A	**K**
75	**100**	50-75	25	50	**100**

General reaction mixture:

10U AsuII	1µl
10x U_{AsuII} 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_{AsuII} 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
7	1	0	0	0	0

Lambda DNA 0.7 % agarose

MINOTECH BIOTECHNOLOGY