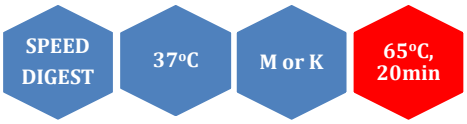
Sau3A I



5’ ···▼GATC···3’
3’ ···CTAG▲···5’

Sau3AI is a restriction enzyme purified from *Streptomyces* species.

Catalogue No — *147-1, 200 U*
147-2, 1000 U
147-3, 5000 U

Concentration — *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.

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

Absence of contaminants: 50 units of *Sau*3A I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of λ DNA at 37°C. After 50-fold overdigestion with *Sau3*A 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: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Blocked by overlapping

Percent Activity in MINOTECH Buffers

L	**M**	H	SH	A	**K**
50	**100**	50	<10	50	**100**

General reaction mixture:

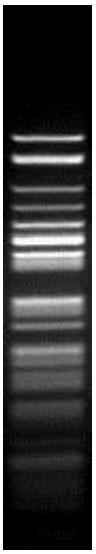
10U Sau3AI	1µl
10x M or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl

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
116	87	0	15	7	22



Lambda DNA 1.4 % agarose

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