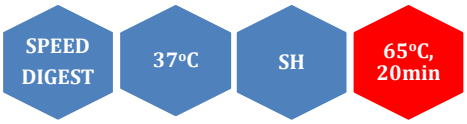
Sal I



5’ ···G▼TCGAC···3’
3’ ···CAGCT▲G···5’

SalI is a restriction enzyme purified from *Streptomyces albus* G.

Catalogue No	*130-1, 3000 U* *130-2, 3x3000 U*
Concentration	*10-12u/µl and 40-60u/µl**

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

Reagents supplied: 10x SH buffer.

Unit substrate: Lambda DNA (HindIII digest).

Unit calculation assay conditions: 150 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: 400 units of *Sal* I incubated for 16 hours at 37ºC with 1 µg of λ DNA (*Hind*III digest) resulted in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. After 50-fold overdigestion with *Sal* 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, 300 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: Blocked

Star activity: Large excess of the enzyme results in the appearance of star activity.

Percent Activity in MINOTECH Buffers

L	M	H	**SH**	A	K
<10	25-50	50	**100**	<10	50

General reaction mixture:

10U SalI	1µl
10x SH buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl
Incubate for 15 min at 37°C	

**We recommend the addition of BSA to a final concentration of 100 µg/ml.*

Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
2	3	0	1	1	1

Lambda DNA 0.7 % agarose

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