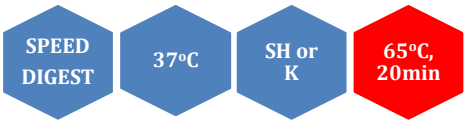
SlaI (Xho I isoschizomer)



5' ···C▼TCGAG···3'
3' ···GAGCT▲C···5'

SlaI is a restriction enzyme purified from *Stremptomyces lavendulae*.

Catalogue No — *134-1, 5000 U*
134-2, 3x5000 U

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

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

Reagents supplied: 10x SH and 10x K 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 *Sla I* do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of λ DNA (*Hind* III digest) at 37°C. After 100-fold overdigestion with *Sla*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 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: Impaired

Percent Activity in MINOTECH Buffers

L	M	H	**SH**	A	**K**
25-50	75	75-100	**100**	10-25	**100**

General reaction mixture:

10U SlaI	1µl
10x SH 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 SH 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
1	6	1	0	0	0

Lambda DNA 0.7 % agarose

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