SalI

5'…G▼TCGAC…3'
3'…CAGCT▲G…5'

Content:

Ref No.	250130S	color
SalI 10 U/µL	2000 units	blue
10x buffer SH*	1x 1 mL	red
10x buffer K	1x 1 mL	yellow
Datasheet		

Lambda DNA SalI digest, 0.7 % agarose

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

Storage: -20 °C

Concentration: 10 U/µL

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

Enzyme Properties:

1x buffer SH composition: 10 mM Tris-HCl (pH 7.9 at 25 °C), 150 mM NaCl, 10 mM $MgCl_2$, 1 mM DTT.

General reaction mixture:

10 U SalI	1 µL
10x buffer SH*	2 µL
DNA substrate	<1 µg
Sterile ultrapure water	Up to 20 µL

Incubate for 15 min at 37 °C

Heat inactivation: 65 °C for 20 minutes.

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Blocked

Storage buffer: 10 mM Tris-HCl (pH 7.4), 50 mM KCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 300 µg/ml BSA and 50 % glycerol. Store at -20 °C.

Absence of contaminants: 400 units of SalI incubated for 16 hours at 37 ºC with 1 µg of Lambda DNA (HindIII digest) resulted in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. After 50-fold overdigestion with SalI, greater than 95 % of the DNA fragments can be ligated and recut with this enzyme.

Unit definition: One unit is defined as the amount of enzyme required to produce a complete digest of 1 µg Lambda DNA in 60 minutes in a total reaction volume of 0.05 mL under assay conditions.

Frequency of Cutting:

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

Percent Activity in BIORON Buffers:

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

*we recommend the addition of BSA to a final concentration of 100 µg/mL.

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Rev02092019