

5'...AGT[▼]ACT...3'
 3'...TCA[▲]TGA...5'

Content:	Ref No.	250131S	color
Scal 10 U/μL		1200 units	blue
10x buffer U _{Scal} *		1x 1 mL	red
10x buffer K		1x 1 mL	yellow
Datasheet			



Lambda DNA Scal digest, 0.7 % agarose

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

Storage: -20 °C

Concentration: 10 U/μL

Source: Scal is a restriction enzyme purified from *Streptomyces caespitosus*.

Enzyme Properties:

1x buffer U_{Scal} composition: 10 mM Bis-Tris-Propane (pH 7.0 at 25 °C), 100 mM KCl, 10 mM MgCl₂.

General reaction mixture:

10 U Scal	1 μL
10x buffer U _{Scal} * or K	2 μL
DNA substrate	<1 μg
Sterile ultrapure water	Up to 20 μL

Incubate for 15 min at 37 °C

Heat inactivation: 80 °C for 20 minutes.

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

Storage buffer: 10 mM Tris-HCl (pH 7.4), 50 mM KCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 500 μg/ml BSA and 50 % glycerol. Store at -20 °C.

Absence of contaminants: 600 units of Scal incubated for 16 hours at 37 °C with 1 μg of Lambda DNA resulted in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. After 100-fold overdigestion with Scal, greater than 90 % 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
	5	5	0	1	0	1
Percent Activity in BIORON Buffers:	L*	M*	H*	SH*	A*	K
	<10	50-75	100	75-100	25	50

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

BIORON GmbH – In den Rauheiden 20 - 67354 Römerberg (Germany)

Phone +49 6232 298 45 0 - Fax +49 6232 298 45 29
info@bioron.net www.bioron.net