ApaLI

5'…G▼TGCAC…3'
3'…CACGT▲G…5'

Content:	Ref No.	250148S	color
	ApaLI 10 U/µL	2000 units	blue
	10x buffer L*	1x 1 mL	red
	10x buffer K	1x 1 mL	yellow
	Datasheet		

We recommend the use of buffer K as universal buffer (BSA included).

Lambda DNA ApaLI digest, 0.7 % agarose

Storage: -20 °C

Concentration: 10 U/µL

Source: ApaLI is a restriction enzyme purified from *Acetobacter pasteurianus* (ATCC 12875).

Enzyme Properties:

1x buffer L composition: 10 mM Tris-HCl (pH 7.9 @ 25 °C), 10 mM $MgCl_2$, 1 mM Dithiothreitol.

General reaction mixture:

10 U ApaLI	1 µL
10x buffer L* or K	2 µL
DNA substrate	<1 µg
Sterile ultrapure water	Up to 20 µL

Incubate for 15 min at 37 °C

Heat inactivation: No.

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

Storage buffer: 10 mM Tris-HCl (pH 7.4), 50 mM KCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 200 µg/ml BSA and 50 % glycerol.

Absence of contaminants: 100 units of ApaLI do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA at 37 °C. After 100-fold overdigestion with ApaLI, greater than 98 % 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
4	7	1	3	0	3

Percent Activity in BIORON Buffers:

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

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

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