

5'...AG[▼]CT...3'
 3'...TC[▲]GA...5'

Content:	Ref No.	250101S	color
AluI 10 U/μL		600 units	blue
10x buffer L*		1x1 mL	red
10x buffer K		1x1 mL	yellow
Datasheet		1	--



Lambda DNA AluI digest, 1.4 % agarose

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

Storage: -20 °C

Concentration: 10 U/μL

Source: AluI is a restriction enzyme purified from *Arthrobacter luteus* (ATCC 21606).

Enzyme Properties:

1x buffer L composition: 10 mM Tris-HCl (pH 7.9 at 25 °C), 10 mM MgCl₂, 1 mM Dithiothreitol.

General reaction mixture:

10 U AluI	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: 65 °C for 20 minutes.

Methylation Sensitivity:

- dam* methylation: Not sensitive
- dcm* methylation: Not sensitive
- CpG methylation: Not sensitive

Storage buffer: 100 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM Dithiothreitol, 200 μg/ml BSA and 50 % glycerol.

Absence of contaminants: 50 units of AluI do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of lambda DNA at 37 °C. After 10-fold overdigestion with AluI, 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 (*dam*⁻) in 60 minutes in a total reaction volume of 0.05 mL under the assay conditions.

Frequency of Cutting:	λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
	143	158	24	16	27	17

Percent Activity in BIORON Buffers:	L*	M*	H*	SH*	A*	K
	100	100	75	10-25	75	100

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

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