

5'...TT[▼]CGAA...3'
 3'...AAGC[▲]TT...5'

Content:	Ref No.	250102S	color
AsuII 10 U/μL		3500 units	blue
10x buffer U _{AsuII} *		1x 1 mL	red
10x buffer K		1x 1 mL	yellow
Datasheet			



Lambda DNA AsuII digest, 0.7 % agarose

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

Storage: -20 °C

Concentration: 10 U/μL

Source: AsuII is a restriction enzyme purified from an isolated strain (#94S).

Enzyme Properties:

1x buffer U_{AsuII} composition: 10 mM Tris-HCl (pH 7.9 at 25 °C), 50 mM NaCl, 10 mM MgCl₂, 1 mM Dithiothreitol, 0.1 % Triton X-100

General reaction mixture:

10 U AsuII	1 μL
10x buffer U _{AsuII} * 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: Blocked

Storage buffer: 10 mM Tris-HCl (pH 7.9 at 25 °C), 100 mM KCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 0.15 % Triton X-100

Absence of contaminants: 100 units of AsuII do not produce any unspecific cleavage products after 16 hrs incubation with 1 μg of Lambda DNA/HindIII digest at 37 °C. After 50-fold overdigestion with AsuII, 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 assay conditions.

Frequency of Cutting:	λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
	7	1	0	0	0	0
Percent Activity in BIORON Buffers:	L*	M*	H*	SH*	A*	K
	75	100	50-75	25	50	100

*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