

5'...TCG▼CGA...3'
 3'...AGC▲GCT...5'

Content:	Ref No.	250125S	color
NruI 10 U/μL		750 units	blue
10x buffer U _{NruI} *		1x 1 mL	red
10x buffer K		1x 1 mL	yellow
Datasheet			



Lambda DNA NruI digest,
 0.7 % agarose

We recommend the use of buffer K as universal buffer (BSA included).
Star activity: Large excess of the enzyme results in the appearance of star activity.

Storage: -20 °C

Concentration: 10 U/μL

Source: NruI is a restriction enzyme purified from *Nocardia rubra*.

Enzyme Properties:

1x buffer U_{NruI} composition: 50 mM Tris-HCl (pH 8.0 at 25 °C), 100 mM KCl, 10 mM MgCl₂.

General reaction mixture:

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

Incubate for 15 min at 37 °C

Heat inactivation: 37 °C for 20 minutes.

Methylation Sensitivity:

- dam* methylation: Blocked by overlapping
- 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, 200 μg/ml BSA and 50 % glycerol. Store at -20 °C.

Absence of contaminants: 80 units of NruI 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 NruI, less than 20 % of the DNA fragments can be ligated.

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	2	0	0	1
Percent Activity in BIORON Buffers:	L*	M*	H*	SH*	A*	K
	<10	<10	75	50-75	10	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