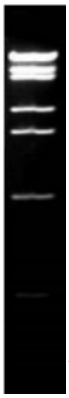
NotI

5'…GC▼GGCCGC…3'
3'…CGCCGG▲CG…5'

Content:	Ref No.	250124S	color
	NotI 10 U/µL	300 units	blue
	10x buffer U_{NotI}*	1x 1 mL	red
	10x buffer K	1x 1 mL	yellow
	Datasheet		



Ad2 DNA NotI digest, 0.7 % agarose

Note: Supercoiled plasmids may require up to 5-fold more NotI for complete digestion than linear DNAs

Storage: -20 °C

Concentration: 10 U/µL

Source: NotI is a restriction enzyme purified from *Nocardia otitidis-caviarum*.

Enzyme Properties:

1x buffer U_{NotI} composition: 50 mM Tris-HCl (pH 7.9 at 25 °C), 100 mM NaCl, 5 mM $MgCl_2$, 1 mM Dithiothreitol.

General reaction mixture:

10 U NotI	1 µL
10x buffer U_{NotI}* 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 7.4), 500 mM KCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 0.1 % Triton X-100, 500 µg/ml BSA and 50 % glycerol. Store at -20 °C.

Absence of contaminants: 80 units of NotI do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Adeno-2 DNA at 37 °C. After 30-fold overdigestion with NotI, 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
0	7	0	0	0	0

Percent Activity in BIORON Buffers:

L*	M*	H*	SH*	A*	K
<10	25-50	75-100	75	50	**50**

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

BIORON GmbH – In den Rauhweiden 20 - 67354 Römerberg (Germany)
Phone +49 6232 298 45 0 - Fax +49 6232 298 45 29
info@bioron.net www.bioron.net

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