NheI

5'…G▼CTAGC…3'
3'…CGATC▲G…5'

Content:

Ref No.	250146S	color
NheI 10 U/µL	550 units	blue
10x buffer A*	1x 1 mL	red
10x buffer K	1x 1 mL	yellow
Datasheet		

Lambda DNA NheI digest, 0.7 % agarose

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

Storage: -20 °C

Concentration: 10 U/µL

Source: NheI is a restriction enzyme purified from *Neisseria mucosa heildelbergensis* (ATCC 25999).

Enzyme Properties:

1x buffer A composition: 20 mM Tris-acetate (pH 7.9 at 25 °C), 50 mM potassium acetate, 10 mM magnesium acetate, 1 mM Dithiothreitol

General reaction mixture:

10 U NheI	1 µL
10x buffer A* 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 by some combinations of overlapping

Storage buffer: 10 mM Tris-HCl (pH 7.5), 200 mM NaCl, 0.1 mM EDTA, 1 mM Dithiothreitol, 0.15 % Triton X-100, 200 µg/ml BSA and 50 % glycerol. Store at -20 °C.

Absence of contaminants: 80 units of NheI do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA/HindIII digest at 37 °C. After 100-fold overdigestion with NheI, greater than 98 % of the DNA fragments can be ligated and recut.

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
1	4	0	0	0	1

Percent Activity in BIORON Buffers:

L*	M*	H*	SH*	A*	K
100	50-75	0-20	<10	**100**	**100**

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

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