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RESTRICTION ENDONUCLEASE				Product Datasheet		
AsuNH I (Nhe I)	5'GCTAGC 3'CGATCG		-	roduct No Juantity	: RE1136 : 300u	
37°C		: 1 1 (	1ml o D.5ml	f 10X Buffe f 10X Buffe	er UB va Buffer A	
			info	@vivantech	nologies.com	

# **Reaction Conditions:**

Buffer V5,

30mM Tris-acetate (pH 7.9 at 30°C), 10mM Mg-acetate, 60mM K-acetate, and 100µg/ml BSA. Incubate at 37°C.

## Dilution: Viva Buffer A

10mM Tris-HCI (pH 7.4 at 25°C), 50mM KCI, 0.1mM EDTA, 1mM DTT, 200µg/ml BSA and 50% glycerol.

Thermal Inactivation: 65°C for 20 minutes

## Storage Buffer:

10mM Tris-HCI (pH 7.5), 250mM NaCl, 0.1mM EDTA, 7mM 2-mercaptoethanol, 100µg/ml BSA and 50% glycerol.

## Unit Definition:

1u is defined as the amount of enzyme that is required to digest 1µg of DNA in 1 hour at 37°C in 50µl of assay buffer.

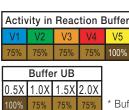
## Quality Control Assays:

## Ligation/ Recutting Assay:

After 3-fold overdigestion with AsuNH I, more than 90% of the DNA fragments can be ligated and recut.

## Overdigestion assay:

An unaltered banding pattern was observed after 1µg of DNA was digested with 6u of AsuNH I for 16 hours at 37°C.



\* Buffer UB is provided for double digestion purpose.

## NOTE:

- Total reaction volume dependent on experiment.
- The amount of enzyme to be used is very much dependent on the DNA template.
- For plasmid DNA, 5-10X more enzyme is required.

Example of Digestion Reaction Enzyme Lambda (Hind III Digest) DNA 0.3µg/µl 10X Reaction Buffer Sterile Distilled Water

- : 1 unit : 3.33µl (1µg DNA) : 5µl : Up to 50µl

Product Use Limitation This product is for research purposes and in vitro use only.

λDNA (Hind III Digest) 0.7% Agarose

