

Restriction  
Endonuclease



# Vne I

Recognition  
Sequence:

G↓TGCAC  
CACGT↑G

S

E137

1,000 units  
10,000 u/ml

Lot:

Exp:

Store at -20C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	10-25	25-50	100	25-50	25-50	100

37°C

80°C

O

λ

RR

For more details  
scan the code



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## CERTIFICATE OF ANALYSIS

Source: An *E. coli* strain that carries the cloned *Vne I* gene from *Vibrio nereis* 18.

Supplied in:

10 mM Tris-HCl (pH 7.5), 50 mM NaCl, 0.1 mM EDTA,  
200 µg/ml BSA, 1 mM DTT, 50% glycerol.

Reaction Conditions:

1X SE-Buffer O. Incubate at 37° C.

1X SE-Buffer O (pH 7.6 @ 25° C):

50 mM Tris-HCl      100 mM NaCl  
10 mM MgCl<sub>2</sub>      1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 65°C for 20 minutes.

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of lambda DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation: After 10-fold overdigestion with Vne I, 95% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 20 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 10 units of restriction endonuclease for 3 hours.

Enzyme Properties:

When using a buffer other than the optimal (Supplied) SE-Buffer, it may be necessary to add more enzymes to achieve complete digestion.

Reagents Supplied with Enzyme:

10X SE Buffer O.