



Vne I

Recognition Sequence:

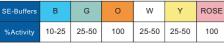
1,000 units 10.000 u/ml

E137

GITGCAC CACGT† G

Lot: Exp:

Store at -20C





For more details

scen the code









RR

CERTIFICATE OF ANALYSIS

Source: An E.coli strain that carries the cloned Vne I aene 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 MgCl₂ 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 SF Buffer O.