



# Pac I

Recognition Sequence:

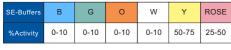
E909

200 units 10.000 u/ml

TTAATLTAA **AATTTAATT** 

Lot: Exp:

Store at -20°C



For more details scen the code



## CERTIFICATE OF ANALYSIS

Source: Pseudomonas alcaligenes.

## Supplied in:

10 mM Tris-HCl (pH 7.4), 200 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 100 µg/ml BSA, 50% glycerol.

### **Reaction Conditions:**

1X FastCut Buffer, Incubate at 37 °C.

#### **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 pUC101 DNA in 1 hour at 37°C in a total reaction volume of 50 µl.

## **Quality Control Assays**

Ligation: After 10-fold overdigestion with Pac I, 90% 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 FastCut Buffer.