



# Pct I

Recognition Sequence:

S

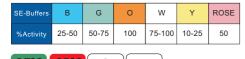
1,000 units 10,000 u/ml

E045

GAATGCN↓ CTTAC↑GN

Lot: Exp:

Store at -20°C



For more details scen the code



## **CERTIFICATE OF ANALYSIS**

Source: Planococcus citreus SM.

### Supplied in:

10 mM Tris-HCl (pH 7.5), 250 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol,  $100~\mu g/ml$  BSA, 50% glycerol.

#### **Reaction Conditions:**

1x SE-Buffer O. Incubate at 37° C.

1X SE-Buffer 0 (pH 7.6 @ 25° C): 50 mM Tris-HCL 100 mM NaCl 10 mM MgCl, 1 mM DTT

### **Heat Inactivation:**

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

### **Quality Control Assays**

<u>Ligation</u>:After 10-fold overdigestion with Pct 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 SE Buffer O.