



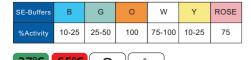
# AsiG I

Recognition Sequence:

E235 100 units 5.000 u/ml AICCGGT TGGCCTA Lot:

Exp:

Store at -20°C



For more details scen the code



# CERTIFICATE OF ANALYSIS

Source: Arthrobacter species G.

## Supplied in:

10 mM Tris-HCl (pH 7.5), 250 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 100 µg/ml BSA, 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  $\mu$ g of  $\lambda$  DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

### Quality Control Assays

Ligation: After 5-fold overdigestion with AsiG 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 10 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 5 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.