



# Aat II

Recognition Sequence:

XS

E287m

250 units 10,000 u/ml GACGT↓C C↑TGCAG

Lot:

Exp:

Store at -20C

SE-Buffers	В	G	0	w	Υ	ROSE
%Activity	10-25	25-50	10-25	25-50	100	50
270C C50C V 2 DD minimal						

For more details scen the code

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## **CERTIFICATE OF ANALYSIS**

Source: An *E.coli* strain that carries the cloned Aat II gene from *Acetobacter aceti*.

#### Supplied in:

10 mM Tris-HCl (pH 7.6), 50 mM NaCl, 0.1 mM EDTA, 200 µg/ml BSA, 1 mM DTT, 50% glycerol.

## **Reaction Conditions:**

1x SE-Buffer Y. Incubate at 37° C.

## 1X SE-Buffer Y (pH 7.9 @ 25° C):

33 mM Tris-Ac 66 mM KAc 10 mM MgAc 1 mM DTT

## **Heat Inactivation:**

Enzyme is inactivated by incubation at 65  $^{\circ}$ C for 20 minutes.

<u>Unit Definition</u>: One unit is defined as the amount required to digest 1  $\mu g$  of  $\lambda$  DNA in 1 hour at 37° C in a total reaction volume of 50  $\mu$ l.

## Quality Control Assays

<u>Ligation</u>: After 10-fold overdigestion with Aat II, approximately 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.

Conditions of high enzyme concentration may result in star activity.

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 Y.