



Aat II

Recognition Sequence:

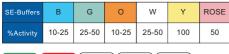
E288

2,500 units 20.000 u/ml

GACGT↓ C CTTGCAG

Lot: Exp:

Store at -20C



For more details

scen the code



Ph/F+7(383)333-6853 info@sibenzyme.com www.sibenzvme.com

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 MqAc 1mM DTT

Heat Inactivation:

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

Unit Definition: One unit is defined as the amount required to digest 1 μg of λ DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation: 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 SF-Buffer Y.