

① Aat II

② GACGT↓C
C↑TGCAG

Cat. # Package Concentration
③ E287m ④ 250Units ⑤ 10U/μl

Lot Exp Store
1807025 07/19 -20°C

B G O W **Y** ROSE
10-25 25-50 10-25 25-50 100 50

37°C

65°C 🔥 20

Y

λ

Rm

CERTIFICATE OF ANALYSIS

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

⑥ **Supplied with :** 1ml of 10 X Buffer Y

Reaction Conditions : 1 X Buffer Y,
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

SibEnzyme

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

Lambda 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 Storage buffer: 10 mM Tris-HCl (pH 7.5); 50 mM NaCl; 0.1 mM EDTA; 200 µg/ml BSA; 1 mM DTT; and 50% glycerol.

Buffer B 10 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl₂; 1 mM DTT.

Buffer G 10 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl₂; 50 mM NaCl; 1 mM DTT.

Buffer O 50 mM Tris-HCl (pH 7.6 at 25°C); 10 mM MgCl₂; 100 mM NaCl; 1 mM DTT.

Buffer W 10 mM Tris-HCl (pH 8.5 at 25°C); 10 mM MgCl₂; 100 mM NaCl; 1 mM DTT.

Buffer Y 33 mM Tris-acetate (pH 7.9 at 25°C); 10 mM magnesium acetate; 66 mM potassium acetate; 1 mM DTT.