

Restriction
Endonuclease



Ama87 I

Recognition
Sequence:

↓YCGRG
GRGCTC

S

E017

1,000 units
20,000 u/ml

Lot:

Exp:

Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	10-25	50-75	75-100	100	0-10	25

37°C

65°C

W

λ

BSA

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: *Alteromonas macleodii* 87.

Supplied in:

10 mM KH₂PO₄ (pH 7.2), 100 mM NaCl, 0.1 mM EDTA,
7 mM 2-mercaptoethanol, 50% glycerol.

Reaction Conditions:

1x SE-Buffer W, BSA (100 µg/ml). Incubate at 37° C.

1X SE-Buffer W (pH 8.5 @ 25° C):

10 mM Tris-HCl 100 mM NaCl
10 mM MgCl₂ 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 µg of λ DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

To obtain 100% activity, BSA should be added to the 1x reaction mix to a final concentration of 100 µg/ml.

Quality Control Assays

Ligation: After 20-fold overdigestion with Ama87 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.

No using BSA for long incubation.

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 20 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 W, BSA (10 mg/ml).