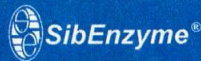


Restriction  
Endonuclease



## CERTIFICATE OF ANALYSIS

Source: *Acinetobacter calcoaceticus*

Supplied in:

10 mM Tris-HCl (pH 7.5), 200 mM NaCl,  
0.1 mM EDTA, 7 mM 2-mercaptoethanol,  
100 µg/ml BSA, 50% glycerol.

Reaction Conditions:

1 x SE-Buffer G. Incubate at 37°C.

1 x SE-Buffer G (pH 7.6@ 25°C):

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

Quality Control Assays

Ligation: After 3-fold overdigestion with Aco 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 2 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 1 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 enzyme  
to achieve complete digestion.

Reagents Supplied with Enzyme:

10 x SE-Buffer G.

Blocked by overlapping dcm-methylation (C<sup>m</sup>CWGG):  
CCTGGCCR.

# Aco I



Recognition  
Sequence:

Y↓GGCCR  
RCCGG↑Y

S

E499

100 units

1,000 u/ml

Lot: 30

Exp: 11/19

Store at -20°C

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

37°C

65°C

G

λ

Dcm

For more details  
scan the code



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