

Restriction
Endonuclease



Acc65 I

Recognition
Sequence:

G↓GTACC
CCATG↑G

L

E004

5,000 units
20,000 u/ml

Lot:

Exp:

Store at -20C

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

37°C

65°C

W

λ

Dcm

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: *Acinetobacter calcoaceticus 65.*

Supplied in:

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

Reaction Conditions:

1x SE-Buffer W. 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.

Quality Control Assays

Ligation: After 10-fold overdigestion with Acc65 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.

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 W.

Blocked by overlapping Dcm-methylation (C^mCWGG):
GGTACC**CCWGG**.