Restriction Endonuclease

SibEnzyme®

# Acc16 I

**Recognition Sequence:** TGC↓GCA
ACG↑CGT

**S** E001
200 units
5,000 u/ml

**Lot:**
**Exp:**
**Store at -20°C**

| SE-Buffers | B | G | O | W | Y | ROSE |
|---|---|---|---|---|---|---|
| %Activity | 50-75 | 75-100 | 25-50 | 100 | 75-100 | 70 |

37°C | 65°C | W | λ

For more details scen the code

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## CERTIFICATE OF ANALYSIS

Source: *Acinetobacter calcoaceticus 16.*

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

Reaction Conditions:
1x SE-Buffer W. Incubate at37° C.

1X SE-Buffer W (pH 8.5 @ 25° C):
10 mM Tris-HCl 100 mM NaCl
10 mM $MgCl_2$ 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 5-fold overdigestion with Acc16 I, > 80% 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.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 5 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.