

## CERTIFICATE OF ANALYSIS Description: Turbo Acc65 I can be used for short time (10 min) DNA digestion as well as for standard reaction. The reaction can be performed using optimal or universal (ROSE) Buffer. Buffer ROSE is perfect for double digestion. 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:

1 x SE-Buffer W or 1 x SE-Buffer ROSE.

100 mM NaCl

1 mM DTT

Enzyme is inactivated by incubation at 65°C for

1 x SE-Buffer W (pH 8.5@ 25°):

Incubate at 37°C.

10 mM Tris-HCl

Heat Inactivation:

10 mM MgCl,

20 minutes.



GGTACCWGG.

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Unit Definition: One unit is defined as the amount of
enzyme required to digest 1 \mug of \lambda DNA in
1 hour at 37°C in a total reaction volume of 50 µl.
Quality Control Assays
Ligation: After 20-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 40 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 20 units of
restriction endonuclease for 3 hours.
Reagents Supplied with Enzyme:
10 x SE-Buffer W. 10 x SE-Buffer ROSE
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Blocked by overlapping Dcm-methylation (CmCWGG):

-Fast DNA analysis -Fast preparation of vectors for cloning -Double digestion **Enzyme Properties:** 1 μl of Turbo Acc65l cuts 1 μg of DNA in 1 x SE-Buffer W or universal 1 x SE-Buffer ROSE in 10 min (see the protocol below). Short time DNA digestion requires high quality purification of DNA sample. This enzyme can digest DNA at standard incubation time (1-16 hours) as well. Turbo reaction protocol: 20 µl of the reaction volume: Reaction Buffer (x10) - 2 µl Plasmid DNA - 1-2 μl (up to 1 μg) or PCR product - 5-10 µl (~0,2 µg) Sterile water - up to 20 µl + 1 µl of Turbo Restriction Endonuclease

Turbo DNA Digestion:

Incubate at 37°C for 10 min.

Applications: