Restriction Endonuclease

SibEnzyme®

# Afe I

Recognition Sequence:

AGC↓GCT
TCG↓CGA

S

**E213T**

20 reactions

20 µl

Lot:

Exp:

Store at -20C

37°C | 65°C | ROSE | λ/BamHI | TURBO

For more details scen the code

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## CERTIFICATE OF ANALYSIS

**Enzymes Properties:**

1 µl of Turbo Afe I cuts 1 µg of DNA in 1x SE-Buffer ROSE in 10 min (assayed on Lambda DNA and plasmid DNA). A short time of DNA digestion requires high quality purification of DNA sample (PCR fragments should be purified after amplification).

Please note that supercoiled plasmid DNA and PCR fragments may have varying rates of cleavage and sometimes need more time to be completely digested.

**Standard protocol of Turbo reaction:**

20 µl of the reaction volume:

| | |
|---|---|
| 10x SE-Buffer ROSE | - 2 µl |
| DNA | - 0.2-1 µg |
| Nuclease-free water | - to 20 µl |

+1 µl of Turbo Ssp I

Mix by pipette tip carefully.

Incubate at 37°C for 10 min.

Description: Turbo Afe I is used for short time(10 min) DNA digestion in universal (ROSE) SE-Buffer.

Source: An *E.coli* strain that carries the cloned Afe I gene from *Alcaligenes faecalis T2774.*

Supplied in:

10 mM Tris-HCl (pH 7.6), 50 mM NaCl, 0.1 mM EDTA, 1mM DTT, 200 µg/ml BSA, 50% glycerol

Reaction Conditions:

1x SE-Buffer ROSE. Incubate at 37°C.

Reaction Original SibEnzyme (ROSE) Buffer is a specially designed universal reaction buffer for the most Restriction Endonucleases. ROSE Buffer is perfect for DNA cleavage with SE Turbo Restriction Endonucleases and for double digestion.

Heat Inactivation:

Enzyme is inactivated by incubation at 65 °C for 20 minutes.

Quality Control Assays

Ligation : After digestion with 1 µl of Turbo Afe I, approximately 80% of the DNA fragments can be ligated with high-activity T4 DNA Ligase and recut.

Oligonucleotide Assay:No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 1 µl of restriction endonuclease for 3 hours.

Reagents Supplied with Enzyme:

10x SE Buffer ROSE.

Applications:

- Fast DNA analysis
- Fast preparation of vectors for cloning
- Double digestion