



AGC1 GCT

Afe I

Recognition Sequence:

xs **E213m**

100 units 5.000 u/ml

TCG ↑ CGA

Exp:

Store at -20C

SE-Buffers B G O W Y ROSE

%Activity 10-25 25-50 75-100 75-100 100 100

37°C 65°C Y \(\rangle \rangle \lambda \) \(\rangle \)

For more details scen the code

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CERTIFICATE OF ANALYSIS

<u>Source</u>: 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, 200 µg/ml BSA, 1 mM DTT, 50% glycerol.

Reaction Conditions:

1x SE-Buffer Y. Incubate at 37° C.

1X SE-Buffer Y (pH 7.9 @ 25° C):

33 mM Tris-Ac 66 mM KAc 10 mM MgAc 1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 65 $^{\circ}$ C for 20 minutes.

Quality Control Assays

<u>Ligation</u>: After 10-fold overdigestion with Afe I, approximately 80% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

<u>16-Hour Incubation</u>: A 50 μl reaction containing 1 μg of DNA and 5 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 SF-Buffer Y.