



Apa I

Recognition Sequence:

xs E019m

500 units 10,000 u/ml CTCCGGG

Lot: Exp:

Store at -20°C

SE-Buffers B G O W Y ROSE

%Activity 50-75 25-50 0-10 0-10 100 50

37°C 65°C Y λ/ΒαπΗΙ RW Dcm BSA

For more details scen the code



CERTIFICATE OF ANALYSIS

<u>Source</u>: An E.coli strain that carries the cloned Apa I gene from Acetobacter pasteurianus.

Supplied in:

10 mM Tris-HCl (pH 7.5), 200 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 100 $\mu g/ml$ BSA, 50% glycerol.

Reaction Conditions:

 $\overline{\text{1x SE-Buffer Y, BSA}}$ (100 µg/ml). 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°C for 20 minutes.

Quality Control Assays

<u>Ligation</u>:After 10-fold overdigestion with Apa I, 90% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

 $\underline{16\text{-Hour Incubation:}} A~50~\mu l$ 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 Y, BSA (10mg/ml).

Blocked by overlapping Dcm methylation (C^CWGG): GGGCCCWGG.