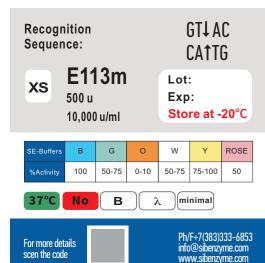




Rsa I



CERTIFICATE OF ANALYSIS

Source: Rhodopseudomonas sphaeroides.

Supplied in:

10 mM Tris-HCl (pH 7.5), 100 mM KCl, 0,1 mM EDTA, 7 mM 2-mercaptoethanol, 100 $\mu g/ml$ BSA, 50% glycerol.

Reaction Conditions:

1x SE-Buffer B. Incubate at 37° C.

1X SE-Buffer B (pH 7.6 @ 25° C):

10 mM Tris-HCl

10 mM MgCl₂ 1 mM DTT

Heat Inactivation:

No (80°C for 20 minutes).

Quality Control Assays

<u>Ligation</u>:After 10-fold overdigestion with Rsa 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 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 B.