Restriction Endonuclease

SibEnzyme®

Rsa I

Recognition Sequence: GT↓AC
CA↑TG

XS

E113m
500 u
10,000 u/ml

Lot:
Exp:
Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	100	50-75	0-10	50-75	75-100	50

37°C | No | B | λ | minimal

For more details scen the code

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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 µg/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 $MgCl_2$ 1 mM DTT

Heat Inactivation:
No (80°C for 20 minutes).

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation: 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.