

Restriction  
Endonuclease



# Rsa I



Recognition  
Sequence:

GT↓AC  
CA↑TG

# S

## E113T

50 reactions  
50 µl

Lot: 90

Exp: 04/21

Store at -20°C

37°C

NO

ROSE

λ

TURBO



For more details  
scan the code

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## CERTIFICATE OF ANALYSIS

### Enzyme Properties:

1 µl of Turbo Rsa I cuts 1 µg of DNA in 1 x SE-Buffer ROSE in 10 min (assayed on Lambda 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:

10 x SE Buffer ROSE - 2 µl

DNA - 0,2-1 µg

Nuclease-free water - to 20 µl

+ 1 µl of Turbo Rsa I

Mix by pipette tip carefully.

Incubate at 37°C for 10 min.

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

Source: *Rhodopseudomonas sphaeroides*

Supplied in: 10 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 100 µg/ml BSA, 50% glycerol.

### Reaction Conditions:

1 x 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:

No (80°C for 20 minutes).

### Quality Control Assays

Ligation: After digestion with 1 µl of Turbo Rsa I, approximately 90% 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:

10 x SE-Buffer ROSE.

### Applications:

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

Certified for human genome studies:

[http://science.sibenzyme.com/article8\\_article\\_28\\_1.p.html](http://science.sibenzyme.com/article8_article_28_1.p.html)