Restriction Endonuclease

SibEnzyme®

Taq I

Recognition Sequence:

T↑CGA
AGC↓T

S

E133T

100 reactions

100 µl

Lot: 122

Exp: 04/20

Store at -20C

65°C | 80°C | ROSE | λ | TURBO

For more details scan the code

Ph/F +7(383)333-6853
info@sibenzyme.com
www.sibenzyme.com

CERTIFICATE OF ANALYSIS

Enzyme Properties:

1 µl of Turbo Taq I cuts 1 µg of DNA in 1x 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:

10x SE-Buffer ROSE	- 2 µl
DNA	- 0.2-1 µg
Nuclease-free water	- to 20 µl

+ 1 µl of Turbo Taq I
Mix by pipette tip carefully.
Incubate at 65°C for 10 min.

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

Source: An *E.coli* strain, that carries the cloned gene Taq I from Thermus aquaticus.

Supplied in:
10 mM Tris-HCl (pH 7.5), 300 mM NaCl, 0,1 mM EDTA, 1 mM DTT, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:
1x SE-Buffer ROSE. Incubate at 65°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:
Enzyme is inactivated by incubation at 80°C for 20 min.

Quality Control Assays

Ligation: After digestion with 1 µl of Turbo Taq I, approximately 95% 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:
10x SE-Buffer ROSE.

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