Restriction Endonuclease

SibEnzyme®

Bme18 I

Recognition Sequence:

G↓GWCC
CCWG↑G

S

E029T
100 reactions
100 µl

Lot: 50
Exp: 04/21
Store at -20°C

37°C | 65°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 Bme18 I cuts 1 µg of DNA in 1 x SE-Buffer ROSE in 15 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 Bme18 I
Mix by pipette tip carefully.
Incubate at 37°C for 15 min.

Description: Turbo Bme18 I is used for short time (15 min) DNA digestion in universal (ROSE) SE-Buffer.

Source: Bacillus megaterium 18

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:
Enzyme is inactivated by incubation at 65°C for 20 minutes.

Quality Control Assays
Ligation: After digestion with 1 µl of Turbo Bme18 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