

C TAATTG **GTTAA↓C**

E295T Lot: 10 Exp: 04/21 50 reactions 50 µl







Restriction

Endonuclease

Mfe I

Recognition

Sequence:





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CERTIFICATE OF ANALYSIS

Enzyme Properties: 1 µl of Turbo Mfe 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

Nuclease-free water

 $-0.2-1 \mu q$ - to 20 µl

+ 1 µl of Turbo Mfe I

Mix by pipette tip carefully.

DNA

Heat Inactivation: Incubate at 37°C for 10 min. Enzyme is not inactivated by incubation at 80°C for

20 min.

Source: An E.coli strain that carries the cloned Mfe I gene from Mycoplasma fermentans.

(10 min) DNA digestion in universal (ROSE+) SE-Buffer.

Description: Turbo Mfe I is used for short time

Supplied in: 10 mM Tris-HCl (pH 7.6), 50 mM NaCl, 0.1 mM EDTA,

200 µg/ml BSA, 1mM DTT, 50% glycerol. Reaction Conditions:

1x SE-Buffer ROSE+, Incubate at 37°C. SE-Buffer ROSE+ is a modified universal ROSE (Reaction Original SibEnzyme) Buffer, specially

designed for Restriction Endonucleases that require BSA to obtain 100% activity. The concentration of BSA in 1x ROSE+ Buffer is 100 µg/ml.

Applications:

Quality Control Assays

endonuclease for 3 hours.

10x SE-Buffe ROSE+.

Reagents Supplied with Enzyme:

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

Ligation: After digestion with 1 µl of Turbo Mfe 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 ul of restriction