Restriction Endonuclease

SibEnzyme®

Tru9 I (MseI TruI)

Recognition Sequence: T↓TAA
AAT↑T

S

E199
500 units
20,000 u/ml

Lot: see label
Exp: see label
Store at -20C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	75-100	25-50	25-50	100	50-75	100

65°C | 80°C | W | λ | RR

For more details scan the code

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CERTIFICATE OF ANALYSIS

Source: *An E.coli strain that carries the cloned Tru9 I gene from Thermus ruber 9.*

Supplied in:
10 mM Tris-HCl (pH 7.6), 50 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:
1X SE-Buffer W. Incubate at 65 °C.

1XSE-Buffer W (pH 8.5 @ 25 °C)
10 mM Tris HCl 100 mM NaCl
10 mM $MgCl_2$ 1 mM DTT

Heat Inactivation:
Enzyme is inactivated by incubation at 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 65 °C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation:After 20-fold overdigestion with Tru9 I, ~95% 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 10 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 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 W.

Blocked by TTA^{m}A methylation.