

Restriction  
Endonuclease



# Tru9 I (MseI TruII)

Recognition  
Sequence:

T↓TAA  
AAT↑↑

XS

**E199m**  
250 units  
10,000 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



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

## 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<sub>2</sub>    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<sup>m</sup>A methylation.