



SmiM I

Recognition Sequence:

E293

500 units 5.000 u/ml CAYNNINNRTG CTRNN†NNYAC

> Lot: Exp:

Store at -20°C

SE-Buffers W ROSE 10-25 10-25 75-100 100 10-25 60







CERTIFICATE OF ANALYSIS

Source: Sphingobacterium mizutae M.

Supplied in:

10 mM Tris-HCl (pH 7.5), 250 mM NaCl, 0,1 mM EDTA, 7 mM 2-mercaptoethanol, 200 µg/ml BSA, and 50% glycerol.

Reaction Conditions:

1XSE-Buffer W. Incubate at 37° C.

1X SE-Buffer W(pH 8.5 @ 25° C): 10 mM Tris-HCl 100 mM NaCl 1 mM DTT 10 mM MaCl

Heat Inactivation:

Enzyme is inactivated by incubation at 65°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 37°C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation: After 5-fold overdigestion with SmiM I, 90% 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 a single-stranded and double-stranded oligonucleotide was observed after incubation with 5 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 SF Buffer W.