



BstMW I

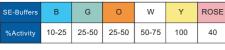
Recognition GCNNNNNINNGC CGNNTNNNNCG

S E

E459500 units
5.000 u/ml

Lot: Exp: Store







For more details scen the code



CERTIFICATE OF ANALYSIS

Source: Bacillus stearothermophilus MW.

Supplied in:

 $\overline{10}$ mM Tris-HCl (pH 7.5), 50 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 200 $\mu g/ml$ BSA, 50% glycerol.

Reaction Conditions:

1X SE-Buffer Y. Incubate at 55° C.

1X SE-Buffer Y (pH 7.6 @ 25° C):

33 mM Tris-Ac 66 mM KAc 10 mM MgAc 1 mM DTT

Heat Inactivation:

Enzyme is inactivated by incubation at 80°C for 20 minutes.

<u>Unit Definition</u>:One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 55° C in a total reaction volume of 50 μ l.

Quality Control Assays

<u>Ligation</u>:After 5-fold overdigestion with BstMW I, more than 95% of the DNA fragments can be ligated and recut.

 $\underline{16\text{-Hour Incubation:}} A 50~\mu\text{l}$ 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 SE Buffer Y.

Storage at -70° C is recommended for periods longer than 7 days.

At37°C activity is 20% from maximum