Restriction Endonuclease

SibEnzyme®

BstMW I

Recognition Sequence: GCNNNNN↓NNGC
CGNN↑NNNNNCG

S

E459

500 units

5,000 u/ml

Lot:
Exp:
Store at -20°C/-70°C *

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	10-25	25-50	25-50	50-75	100	40

55°C 80°C Y λ

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: *Bacillus stearothermophilus MW.*

Supplied in:
10 mM Tris-HCl (pH 7.5), 50 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 200 µg/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.

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 55° C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation: After 5-fold overdigestion with BstMW I, more than 95% of the DNA fragments can be ligated 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 SE Buffer Y.

Storage at -70° C is recommended for periods longer than 7 days.
At37° C activity is 20% from maximum