



BstMA I

Recognition Sequence:

E291

2,000 units 30.000 u/ml

Lot: Exp:

GTCTC(N)₁↓

CAGAG(N)₅↑

Store at -20C

SE-Buffers W ROSE 25-50 50-75 50-75 100 75-100 100

For more details scen the code

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BSA

CERTIFICATE OF ANALYSIS

Source: Bacillus stearothermophilus MA.

Supplied in:

10 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA, 10 mM 2-mercaptoethanol, 100 µg/ml BSA, 50% glycerol.

Reaction Conditions:

1× SE-Buffer W, BSA (100 μg/ml). Incubate at 55° C.

1X SE-Buffer W(pH 8.5 @ 25° C):

10 mM Tris-HCl 100 mM NaCl 10 mM MgCl₂ 1 mM DTT

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 55°C in a total reaction volume of 50 µl. To obtain 100% activity, BSA should be added to the 1x reaction mix to a final concentration of 100 µg/ml.

Quality Control Assays

Ligation: After 50-fold overdigestion with BstMA I, more than 90% of the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 100 Units of enzyme incubated for 16 hours resulted in the same pattern of DNA bands as a reaction incubated for 1 hour.

No using BSA for long incubation.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 30 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, BSA (10 mg/ml).