



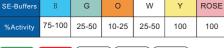
Bst2B I

Recognition Sequence:

E043 200 units 5.000 u/ml CITCGTG GAGCATC

Lot: Exp:

Store at -20°C





For more details scen the code



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CERTIFICATE OF ANALYSIS

Source: Bacillus stearothermophilus 2B.

Supplied in:

10 mM Tris-HCl (pH 7.5), 200 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 50% glycerol.

Reaction Conditions:

1x SE-Buffer Y, BSA (100 μg/ml). Incubate at 60° C.

1X SE-Buffer Y (pH 7.6 @ 25° C):

66 mM KAc 33 mM Tris-Ac 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 λ DNA/HindIII in 1 hour at 60° 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 5-fold overdigestion with Bst2B 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.

Do not use BSA for long incubation.

endonuclease for 3 hours.

Oligonucleotide Assay: No detectable degradation of a single-stranded and double-stranded oligonucleotide was observed after incubation with 5 units of restriction

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, BSA (10 mg/ml).