



Bsp19 I

Recognition Sequence:

E048m XS

200 units 20.000 u/ml CLCATGG GGTAC†C

Lot: Exp:

Store at -20°C

SE-Buffers ROSE 0-10 10-25 50-75 75-100 10-25







For more details scen the code



CERTIFICATE OF ANALYSIS

Source: Bacillus species 19.

Supplied in:

10 mM Tris-HCl (pH 7.5), 50 mM KCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 200 µg/ml BSA, 50% glycerol.

Reaction Conditions:

 $1 \times SE$ -Buffer 2W, BSA (100 μ g/ml). Incubate at 37°C.

1X SE-Buffer 2W(pH 8.5 @ 25° C):

20 mM Tris-HCl 200 mM NaCl 1 mM DTT 10 mM MgCl₂

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. To obtain 100% activity, BSA should be added to the 1x reaction mix to a final concentration of 100 µg/ml.

Quality Control Assays

No using BSA for long incubation.

endonuclease for 3 hours.

Ligation: After 20-fold overdigestion with Bsp 19 I, 95% of the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 40 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 20 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 2W, BSA (10 mg/ml).

Bsp191 cuts hemi methylated site 5'-(5mC) CATGG-3'/3'-GGTACC-5' and doesn't cut methylated sites 5'-(5mC) CATGG-3'/3'-GGTAC(5mC)-5' and 5'-(4mC) CATGG-3'/3'-GGTAC(4mC)-5'.