

Restriction
Endonuclease



BstAP I

Recognition
Sequence: GCANNN ↓ NTGC
CGTN ↑ NNNACG

S

E259

200 units
5,000 u/ml

Lot:

Exp:

Store at -20°C

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

60°C

80°C

W

λ

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: *Bacillus stearothermophilus AP*.

Supplied in:

10 mM Tris-HCl (pH 7.5), 50 mM KCl, 0,1 mM EDTA,
1 mM DTT, 200 µg/ml BSA, and 50% glycerol.

Reaction Conditions:

1X SE-Buffer W. Incubate at 60° C.

1X SE-Buffer W (pH 8.5 @ 25° C):

10 mM Tris-HCl 100mM NaCl
10 mM MgCl₂ 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 60° C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation: After 5-fold overdigestion with BstAP I, 90% of
the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of
DNA and 5 Units of enzyme incubated for 16 hours
resulted in the same pattern of DNA bands as a reaction
incubated for 1 hour.

High enzyme concentration may result in star activity.

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 W.

At 37° C activity is 50% from maximum.

The minimum number of units that resulted in
complete digestion of 1 µg of substrate DNA in 16
hours is 0.5.