

Restriction
Endonuclease



BstSN I

Recognition
Sequence:

TAC↓GTA
ATG↑CAT

S

E065

200 units
5,000 u/ml

Lot:

Exp:

Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	100	50-75	0-10	10-25	50-75	50

37°C

80°C

B

T7

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: *Bacillus stearothermophilus* SN.

Supplied in:

10 mM Tris-HCl (pH 7.5), 250 mM NaCl, 0, 1 mM EDTA,
1 mM DTT, 100 µg/ml BSA, and 50% glycerol.

Reaction Conditions:

1X SE-Buffer B. Incubate at 37° C.

1X SE-Buffer B (pH 7.6 @ 25° C):

10 mM Tris-HCl

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 T7 DNA in 1 hour at
37° C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation: After 5-fold overdigestion with BstSN I, ~70%
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 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 results 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 B.