

Restriction
Endonuclease



Bse3D I

Recognition
Sequence:

GCAATGNN↓
CGTTAC↑NN

S

E253

200 units
5,000 u/ml

Lot:

Exp:

Store at -20°C

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

60°C

80°C

G

λ

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: *Bacillus stearothermophilus 3D*.

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 G. Incubate at 60° C.

1X SE-Buffer G (pH 7.6 @ 25° C):

10 mM Tris-HCl 50 mM 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 Bse3D I, ~90%
of the DNA fragments can be ligated 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.

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 G.

At 37° C activity is 5% from maximum.