

Restriction
Endonuclease



BstF5 I

Recognition
Sequence:

GGATGNN ↓
CCTAC↑ NN

S

E031

500 units

10,000 u/ml

Lot:

Exp:

Store at -20°C

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

65°C

80°C

Y

λ

For more details
scan the code



Ph/F+7(383)333-6853
info@sibenzyme.com
www.sibenzyme.com

CERTIFICATE OF ANALYSIS

Source: *Bacillus stearothermophilus F5*.

Supplied in:

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

Reaction Conditions:

1X SE-Buffer Y. Incubate at 65° C.

1X SE-Buffer Y (pH 7.9 @ 25° C):

33 mM Tris-Ac 66 mM KAc

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 Lambda DNA in 1 hour at 65° C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation: After 10-fold overdigestion with BstF5 I, > 90% of the DNA fragments can be ligated with T4 DNA Ligase and 95% of these can be recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 20 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 10 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 Y.