Restriction Endonuclease

BstDE I

E227m

500 units

В

75-100

10.000 u/ml

G

100

G

25-50

Recognition

Sequence:

XS

SE-Buffers

%Activity

For more details

scen the code

SibEnzyme®

C.LTNAG

GANTTC

Store at -20°C

Y

10-25

Ph/F+7(383)333-6853

info@sibenzyme.com

www.sibenzvme.com

minimal

ROSE

100

Lot:

Exp:

W

50-75

CERTIFICATE OF ANALYSIS

Source: Bacillus stearothermophilus DE.

<u>Supplied in:</u> 10 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 50% glycerol.

<u>Reaction Conditions:</u> 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.

<u>Unit Definition</u>:One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at60° C in a total reaction volume of 50 µl.

Quality Control Assays

<u>Ligation</u>:After 10-fold overdigestion with BstDE I, 90% of the DNA fragments can be ligated with T4 DNA Ligase and recut.

<u>16-Hour Incubation</u>: 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.

<u>Oligonucleotide Assay</u>: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 G.

At 37°C activity is 10% from maximum.