Restriction Endonuclease

SibEnzyme®

BstPA I

Recognition Sequence: GACNN↓NNGTC
CTGNN↑NNCAG

S

E299

1,000 units

20,000 u/ml

Lot:

Exp:

Store at -20C

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

65°C | No | Y | λ

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: *Bacillus stearothermophilus PA.*

Supplied in:
10 mM Tris-HCl (pH 7.5), 50 mM KCl, 0.1 mM EDTA, 7 mM 2-mercaptoethanol, 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:
NO (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 5-fold overdigestion with BstPA I, less than 5% of the DNA fragments can be ligated.

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 20 units of restriction endonuclease for 3 hours.
High enzyme concentration and incubation at 65°C for 16 hours results in star activity.

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.