Restriction Endonuclease

SibEnzyme®

Bsp13 I

Recognition Sequence: T↓CCGGA
AGGCC↑T

S

E183

1,000 units

20,000 u/ml

Lot:

Exp:

Store at -20°C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	25-50	50-75	75-100	50-75	0-10	5

50°C | 65°C | 2k | λ | Dam

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: *Bacillus species 13.*

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 2K. Incubate at 50° C.

1X SE-Buffer 2K(pH 7.6 @ 25° C):
10 mM Tris-HCl 200 mM KCl
10 mM $MgCl_2$ 1 mM DTT

Heat Inactivation:
Enzyme is inactivated by incubation at 65°C for 20 minutes.

Unit Definition:One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA (Dam-) in 1 hour at 50° C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation:After 20-fold overdigestion with Bsp13 I, > 90% 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 40 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.

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 2K.

Blocked by overlapping Dam methylation (G^{m}ATC):
TCCGGATC and GATCCGGA.