Restriction Endonuclease

SibEnzyme®

SspM I

Recognition Sequence:

C↓TAG
GAT↑C

S

E591

100 units

1,000 u/ml

Lot:

Exp:

Store at -20C

SE-Buffers	B	G	O	W	Y	ROSE
%Activity	50-75	25-50	10-25	50-75	100	80

55°C | No | Y | λ

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: *Sporosarcina species M.*

Supplied in:
20 mM Tris-HCl (pH 7.6), 100 mM KCl, 0.1 mM EDTA, 500 µg/ml BSA, 0.01% Triton X-100, 7 mM 2-mercaptoethanol, 50% glycerol.

Reaction Conditions:
1X SE-Buffer Y. Incubate at 55° 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 55° C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation: After 3-fold overdigestion with SspM I, 5% 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 2 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 1 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.

At 37° C activity is 75% from maximum.
Storage at -70° C is recommended for periods longer than 30 days.