

Restriction
Endonuclease



Fsp I

Recognition
Sequence:

TGC↓GCA
ACG↑CGT

XS

E943m
100 units
10,000 u/ml

Lot:
Exp:
Store at -20°C

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

37°C

NO

Y

λ

For more details
scan the code



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CERTIFICATE OF ANALYSIS

Source: *Acinetobacter calcoaceticus 16.*

Supplied in:

10 mM Tris-HCl (pH 7.5), 300 mM NaCl, 0.1 mM EDTA,
1 mM DTT, 0.15% Triton X-100, 300 µg/ml BSA,
50% glycerol.

Reaction Conditions:

1x SE-Buffer Y, BSA (100 µg/ml). Incubate at 37°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 λ DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

Quality Control Assays

Ligation : After 10-fold overdigestion with Fsp 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 10 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, BSA (10mg/ml).