Restriction Endonuclease

SibEnzyme®

Fsp4H I

Recognition Sequence: GC↓NGC
CGN↑CG

S **E095**
200 units
3,000 u/ml

Lot: 5
Exp: 10/19
Store at -20C

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

37°C 65°C Y λ RE

For more details scan the code

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CERTIFICATE OF ANALYSIS

Source: An *E.coli* strain that carries the cloned Fsp4H I gene from *Flavobacterium species* 4H.

Supplied in:
10 mM Tris-HCl (pH 7.5), 100 mM NaCl, 0.1 mM EDTA, 200 µg/ml BSA, 1mM DTT, 50% glycerol.

Reaction Conditions:
1x SE-Buffer Y. 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:
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 λ DNA in 1 hour at 37° C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation: After 5-fold overdigestion with enzyme about 5% of the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 6 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 3 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 enzyme to achieve complete digestion.

Reagents Supplied with Enzyme:
10X SE-Buffer Y.

Certified for human genome studies:
http:// science.sibenzyme.com/article8_article_28_1.phtml