Restriction Endonuclease

SibEnzyme®

Fau I

Recognition Sequence: CCCGC(N)$_4$↓
GGGCG(N)$_6$↑

S

E209

100 units

2,000 u/ml

Lot:

Exp:

Store at -20°C

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

55°C 65°C B λ RR

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: *An E.coli strain that carries the cloned Fau I gene from Flavobacterium aquatili.*

Supplied in:
10 mM Tris-HCl (pH 7.5), 50 mM NaCl, 0,1 mM EDTA, 1 mM DTT, 200 µg/ml BSA, and 50% glycerol.

Reaction Conditions:
1X SE-Buffer B. Incubate at 55° C.

1X SE-Buffer B (pH 7.6 @ 25° C):
10 mM Tris-HCl
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 in 1 hour at 55°C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation: After 2-fold overdigestion with Fau I, more than 90% of the DNA fragments can be ligated and of these 95% can be recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 4 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 2 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 B.

Blocked by CG methylation.

The minimum number of units that resulted in complete digestion of 1 µg of substrate DNA in 16 hours is 0.5.