Restriction Endonuclease

SibEnzyme®

Fat I

Recognition Sequence:

↓CATG
GTAC↑

XS

E155m

50 units

2,000 u/ml

Lot:

Exp:

Store at -20C

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

55°C | 65°C | G | pUC19 | RR | minimal

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: *An E.coli strain that carries the cloned Fat I gene from Flavobacterium aquatile NL3.*

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

Reaction Conditions:
1x SE-Buffer G. Incubate at 55° C.

1X SE-Buffer G (pH 7.6 @ 25° C):
10 mM Tris-HCl 50 mM NaCl
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 pUC19 in 1 hour at 55° C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation: After 2-fold overdigestion with Fat I, approximately 90% of the DNA fragments can be ligated with high-activity 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 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 G.

Note: Fat I is a neoschizomer of Nla III.

Blocked by ^{m}CATG methylation.