Restriction Endonuclease

SibEnzyme®

SfaN I

Recognition Sequence: GCATC(N)$_5$↓ CGTAG(N)$_9$↑

S **E165**

500 units

10,000 u/ml

Lot:

Exp:

Store at -20C

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

37°C 80°C O λ RR

For more details scen the code

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CERTIFICATE OF ANALYSIS

Source: *An E.coli strain that carries the cloned SfaN I gene from Streptococcus faecalis N.*

Supplied in:
10 mM Tris-HCl (pH 7.5), 300 mM NaCl, 0.1 mM EDTA, 200 µg/ml BSA, 1 mM DTT, 50% glycerol.

Reaction Conditions:
1X SE-Buffer O. Incubate at 37° C.

1X SE-Buffer O (pH 7.6 @ 25° C):
50 mM Tris-HCl 100 mM NaCl
10 mM $MgCl_2$ 1 mM DTT

Heat Inactivation:
Enzyme is inactivated by incubation at 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 37° C in a total reaction volume of 50 µl.

Quality Control Assays
Ligation: After 10-fold overdigestion with SfaN I, more than 95% of the DNA fragments can be ligated and recut.

16-Hour Incubation: A 50 µl reaction containing 1 µg of DNA and 20 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 O.