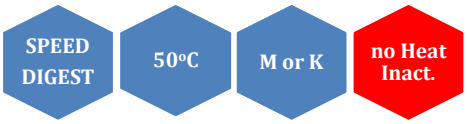
Sfi I



5' ···GGCCNNNN ▼NGGCC ···3'
3' ···CCGGN▲NNNNCCGG ···5'

SfiI is a restriction enzyme purified from *Streptomyces fimbriatus* (ATCC 15051).

Catalogue No	*132-1, 2000 U* *132-2, 3x2000 U*
Concentration	*10-12u/µl and 40-60u/µl**

**Add an H to cat.# to order the high concentration*

Reagents supplied: 10x M and 10x K buffer

Unit substrate: Adenovirus-2 DNA.

Unit calculation assay conditions: 50 mM NaCl, 10 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml BSA. Incubate at 50°C.

Absence of contaminants: 100 units of *Sfi* I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Adeno-2 DNA at 50°C. After 50-fold overdigestion with *Sfi* I, greater than 95% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 300 mM NaCl, 5 mM KPO_4 (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 0.15% Triton X-100, 500 µg/ml BSA and 50% glycerol. Store at -20°C.

Heat inactivation: No.

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Impaired by overlapping
CpG methylation: Blocked by some combinations of overlapping

Percent Activity in MINOTECH Buffers

L	**M**	H	SH	A	**K**
75-100	**100**	25-50	10-25	75-100	**100**

General reaction mixture:

10U SfiI	1µl
10x M or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl

Incubate for 15 min at50°C

**In the case of M buffer we recommend the addition of BSA to a final concentration of 100 µg/ml.*

Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
0	3	0	0	0	0

Adeno-2 DNA 0.7 % agarose

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