SfiI

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

Content:	Ref No.	250132S	color
	SfiI 10 U/µL	400 units	blue
	10x buffer M*	1x 1 mL	red
	10x buffer K	1x 1 mL	yellow
	Datasheet		

Ad-2 DNA SfiI digest, 0.7 % agarose

We recommend the use of buffer K as universal buffer (BSA included).

Storage: -20 °C

Concentration: 10 U/µL

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

Enzyme Properties:

1x buffer M composition: 10 mM Tris-HCl (pH 7.9 at 25 °C), 50 mM NaCl, 10 mM $MgCl_2$, 1 mM Dithiothreitol.

General reaction mixture:

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

Incubate for 15 min at 50 °C

Heat inactivation: No.

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

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

Absence of contaminants: 100 units of SfiI 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 SfiI, greater than 95 % of the DNA fragments can be ligated and recut with this enzyme.

Unit definition: One unit is defined as the amount of enzyme required to produce a complete digest of 1 µg Lambda DNA in 60 minutes in a total reaction volume of 0.05 mL under assay conditions.

Frequency of Cutting:

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

Percent Activity in BIORON Buffers:

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

*we recommend the addition of BSA to a final concentration of 100 µg/mL.

BIORON GmbH – In den Rauhweiden 20 - 67354 Römerberg (Germany)
Phone +49 6232 298 45 0 - Fax +49 6232 298 45 29
info@bioron.net www.bioron.net

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