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# DATA SHEET

info@genespin.com - www.genespin.com

## Fokl

Neoschizomers: BseGI,BstF5I, BtsCI

cat. no	Units
STS -Fokl	500 Units
	5 x 500 Units

**Unit Definition:** One unit is the amount of enzyme required to completely digest 1  $\mu$ g of Lambda DNA in 1 hour in a total reaction volume of 50  $\mu$ l. Enzyme activity was determined in the recommended reaction buffer.

#### For general laboratory use.

Shipping: shipped on gel packs

Storage Conditions: store at -20 °C

Additional Storage Conditions: avoid freeze/thaw cycles Shelf Life: 12 months

Form: liquid (Supplied in 10 mM Tris-HCl pH 7.4, 50 mM NaCl, 0.1 mM EDTA, 1 mM DTT, 200  $\mu g/ml$  BSA, 0.1 % Tween 20 and 50 % [v/v] glycerol)

Concentration: 10 units/µl

## 5′... G G A T G N N N N N N N N N N N N N N 3′

3′... C C T A C N N N N N N N N N N N ↑ ...5′

Source: Flavobacterium okeanokoites Supplied with: 10x Universal Buffer (UB)

Recommended 50 µl assay5 µl10x Universal Buffer (UB)1 µgpure DNA1 or PCR product210 unitsenzymefill up to 50 µlPCR grade water

Optimum buffer condition for restriction is 1x UB

<sup>1</sup> Supercoiled or high molecular weight DNA (e.g. plant genomic DNA) may require longer incubation time or higher amount of enzyme.

<sup>2</sup> Some enzymes may require additional DNA bases flanking the restriction site for complete digestion.

#### Protocol:

• The enzyme should not exceed 10 % of total reaction volume.

Add enzyme as last component. Mix components well before adding enzyme.
After enzyme addition, mix gently by pipetting.
Do not vortex.

- Incubate 5 to 10 min. at 60 °C.
- Stop reaction by alternatively:
- Addition of 2.1 µl EDTA pH 8.0 [0.5 M], final 20 mM
- Heat Inactivation (No)
- Spin Column DNA Purification
- Gel Electrophoresis and Single Band Excision
- Phenol-Chloroform Extraction or Ethanol Precipitation.

#### Double Digestion - Buffer Compatibility:

- B1 0 % Relative Activity
- B2 100 % Relative Activity
- B3 0 % Relative Activity
- B5 0 % Relative Activity
- 1x UB 100 % Relative Activity (recommended)

Please note that the optimum digestion condition for this enzyme is 1x UB. Within the Universal Buffer (UB) system, the most majority of our enzymes display 100% Relative Activity in 1x UB and only few either in 0.5x or 2x UB. If optimum condition for second enzyme is different than the recommended for the first enzyme, we suggest carrying out first the restriction at the higher recommended concentration of UB and dilute the reaction volume to the adequate UB concentration for further proceeding with the second restriction.

## FOR RESEARCH USE ONLY



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### Fokl

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	nzymes Buffe 10 × B1 100 mM 100 mM 1000 µg/ml	Tris-HCl(pH 7.9, 25°C) MgCl2
Buffer 2	10 × B2 100 mM 100 mM 500 mM 1000 µg/ml	Tris-HCl(pH 7.9, 25°C) MgCl2 NaCl BSA
Buffer 3	10 × B3 500 mM 100 mM 1000 mM 1000 µg/ml	Tris-HCl(pH 7.9, 25°C) MgCl2 NaCl BSA
Buffer 4	10 × B4 100 mM 100 mM 1500 mM 1000 µg/ml	Tris-HCI(pH 7.9, 25°C) MgCl2 NaCl BSA
Buffer 5	10 × B5 200 mM 100 mM 500 mM 1000 µg/ml	Tris-HCl(pH 7.9, 25°C) Mg acetate K acetate BSA

**Reaction Buffer Compatibility:** 

Our restriction enzymes are fully compatible to restrictases and buffer systems from other manufacturers and can be used along in double digestions. To obtain best results, consult the corresponding manuals of all involved products.

#### **DNA** Methylation:

No Inhibition: dam, EcoKI Potential Inhibition: dcm, CpG

#### Quality Control:

All preparations are assayed for contaminating endonuclease, 3'- exonuclease, 5' exonuclease/ 5' phosphatase, as well as nonspecific single- and doublestranded DNase activities.