

# Restriction Enzyme Alw26 I



Cat.# FG-Alw26I Size 1,000 units Conc. 10 units/ul

Store at -20℃

Supplied with: 10X FastGene® Buffer IV (FG-REB4)

10X FastGene® FastCut Buffer (FG-REBHF) 6X DNA Loading Buffer

Sterile water

Recognition site

For Research Use Only. Not for use in diagnostic procedures.

ISO9001

#### Dilution buffer:

FastGene® Diluent A

# **Heat Inactivation**

Alw26 I can be inactivated at 65°C for 20 min.

Methylation sensitivity

dam methylation: Not sensitive dcm methylation: Not sensitive

CpG methylation: Conditionally sensitive

# Relative activity in FastGene® Buffers

FastGene® Buffer I: 75%
FastGene® Buffer II: 100%
FastGene® Buffer III: 50%
FastGene® Buffer IV: 100%
FastGene® FastCut Buffer: 1/00%

### Note

It is an isoschizomer of BsmA I. Cleavage of mammalian DNA is blocked by overlapping CpG methylation.

Source: Acinetobacter Iwoffi RFL26

## Reaction conditions

1X FastGene® Buffer IV 37°C 1X FastGene® FastCut Buffer, 37°C

## FastGene® FastCut Buffer

FastGene® restriction enzyme can cut substrate DNA in 5-15 with FastGene® FastCut Buffer.

## 1X FastGene® Buffer IV

20 mM Tris-acetate (pH 7.9 at 25°C) 50 mM potassium acetate 10 mM magnesium acetate 100 μg/ml BSA

#### Unit definition

One unit is defined as the amount of enzyme required for complete digestion of 1  $\mu g$  bacteriophage  $\lambda$  at 37°C for 1 hr in 50  $\mu l$  reaction mixtures.

# Quality control

- Unit definition assay
- Overdigestion assay
- Endonuclease assay
- Extreme pure assay

## Standard reaction condition

- Normal protocol

Component	Final Conc.	Volume
Substrate DNA	1 μg	ΧμΙ
10X FastGene® Buffer IV	1 X	5 μΙ
Alw26 I	10 unit	1 μΙ
Sterile water		up to 50 μl

 $\rightarrow$  Incubate at 37°C for 1 hr

- Fast protocol

rust protocor		
Component	Final Conc.	Volume
Substrate DNA	1 μg	Χ μΙ
10X FastGene® FastCut Buffer	1 X	5 μΙ
Alw26 I	10 unit	1 μΙ
Sterile water		up to 50 μl
1 1		

→ Incubate at 37°C for 15 min