

Restriction Enzyme Alw26 I



Cat.# FG-Alw26I

Size 1.000 units

Conc. 10 units/ul

Store at -20°C

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:

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℃ 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 μg bacteriophage λ at 37°C for 1 hr in 50 µl 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

→ Incubate at 37°C for 1 hr

- Fast protocol

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Component	Final Conc.	Volume
Substrate DNA	1 μg	Xμl
10X FastGene® FastCut Buffer	1 X	5 µl
Alw26 I	10 unit	1 μΙ
Sterile water		up to 50 μl
1 1 4 4 2700 5 45 1		

→ Incubate at 37°C for 15 min

We recommend 5-10 units of enzyme per μg DNA and 10-20 units for genomic DNA in a 1 h digest.