

# Restriction Enzyme Sau96 I



Cat.# FG-Sau96I Size 1,000 units Conc. 5 units/µl

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**

Sau96 I can be inactivated at 80°C for 20 min.

## Methylation sensitivity

dam methylation: Not sensitive

dcm methylation: Conditionally sensitive

CpG methylation: Conditionally sensitive

## Prolonged incubation

A minimum amount of enzyme required to digest 1  $\mu$ g substrate DNA for 16 hr; 0.25 U.

## Relative activity in FastGene® Buffers

 FastGene® Buffer I:
 50%

 FastGene® Buffer II:
 100%

 FastGene® Buffer III:
 100%

 FastGene® Buffer IV:
 100%

 FastGene® FastCut Buffer:
 100%

#### Note

Cleavage is inhibited by *dcm* methylation and CpG methylation partially overlapping its cleavage site.

Source: Staphylococcus aureus PS96

## 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 assayExtreme pure assay

## Standard reaction condition

- Normal protocol

Component	Final Conc.	Volume
Substrate DNA	1 μg	ΧμΙ
10X FastGene® Buffer IV	1 X	5 μΙ
Sau96 I	5 unit	1 µl
Sterile water		up to 50 μl
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- → Incubate at 37°C for 1 hr
- Fast protocol

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Component	Final Conc.	Volume
Substrate DNA	1 μg	ΧμΙ
10X FastGene® FastCut Buffer	1 X	5 µl
Sau96 I	5 unit	1 µl
Sterile water		up to 50 μl

→ Incubate at 37°C for 15 min

 $\times$  We recommend 5-10 units of enzyme per  $\mu g$  DNA and 10-20 units for genomic DNA in a 1 h digest.