



Restriction Enzyme Bal I



Cat.# FG-Ball Size 50 units Conc. 5 units/µl

Store at -20℃

Supplied with: 10X FastGene® Buffer Bal I 6X DNA Loading Buffer

(FG-REBBall)

Recognition site

Sterile water

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

ISO9001

Dilution buffer:

FastGene® Diluent B

Heat Inactivation

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

Methylation sensitivity

dam methylation: Not sensitive

dcm methylation: Conditionally sensitive

CpG methylation: Not sensitivé

Relative activity in FastGene® Buffers

FastGene® Buffer I:

0%

FastGene® Buffer II: FastGene® Buffer III: 75% 25%

FastGene® Buffer IV:

V: 75%

Note

Activity is inhibited by *dcm* methylation partially overlapping its recognition sequence.

Source: Brevibacterium albidum

Reaction conditions

1X FastGene® Buffer Bal I 37°C

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50 mM Tris-HCI (pH 8.2 at 25°C) 5 mM MqCl₂

Unit definition

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

Quality control

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

Standard reaction condition

- Normal protocol

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

→ Incubate at 37°C for 1 hr

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