



Restriction Enzyme Hind II



Cat.#	Size	Conc.
FG-HindII	2,500 units	4 units/µl

Store at -20°C

Supplied with: 10X FastGene® Buffer II (FG-REB2)
 10X FastGene® FastCut Buffer (FG-REBHF)
 6X DNA Loading Buffer
 Sterile water

Recognition site



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



Source: *Haemophilus influenzae* Rd com-10

Reaction conditions

1X FastGene® Buffer II 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 II

10 mM Tris-HCl (pH 7.9 at 25°C)
 50 mM NaCl
 10 mM MgCl₂
 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

Dilution buffer:

FastGene® Diluent A

Heat Inactivation

Hind II can be inactivated at 65°C for 15 min.

Methylation sensitivity

dam methylation: Not sensitive
dcm methylation: Not sensitive
 CpG methylation: sensitive

Prolonged incubation

A minimum amount of enzyme required to digest 1 µg substrate DNA for 16 hr; 0.13 U.

Relative activity in FastGene® Buffers

FastGene® Buffer I: 100%
 FastGene® Buffer II: 100%
 FastGene® Buffer III: 50%
 FastGene® Buffer IV: 100%
 FastGene® FastCut Buffer: 100%

Note

It is an isoschizomer of Hinc II.

Standard reaction condition

- Normal protocol

Component	Final Conc.	Volume
Substrate DNA	1 µg	X µl
10X FastGene® Buffer II	1 X	5 µl
Hind II	4 unit	1 µl
Sterile water		up to 50 µl

→ Incubate at 37°C for 1 hr

- Fast protocol

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



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