

Restriction Enzyme Hind II



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

Store at -20℃

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.

ISO9001

Dilution buffer:

FastGene® Diluent A

Heat Inactivation

Hind II can be inactivated at 65°C for 20 min.

Methylation sensitivity

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

Donald and an all the study at the st

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.

Source: Haemophilus influenzae Rd com-10

Reaction conditions

1X FastGene® Buffer II 37℃ 1X FastGene® FastCut Buffer, 37℃

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 MgCl $_2$ 100 μ g/ml BSA

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 assayExtreme pure assay

Standard reaction condition

- Normal protocol

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

→ Incubate at 37°C for 1 hr

- Fast protocol

rust protocor		
Component	Final Conc.	Volume
Substrate DNA	1 μg	Xμl
10X FastGene® FastCut Buffer	1 X	5 μΙ
Hind II	4 unit	1 μΙ
Sterile water		up to 50 μl
and the second s		

→ Incubate at 37°C for 15 min