

Restriction Enzyme HpyCH4 V



Cat.# FG-HpyCH4V

Size 100 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

HpyCH4 V can be inactivated at 65°C for 20 min.

Methylation sensitivity

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

Prolonged incubation

A minimum amount of enzyme required to digest 1 µg substrate DNA for 16 hr; 0.25 U.

Relative activity in FastGene® Buffers

FastGene® Buffer I: FastGene® Buffer II: 100% FastGene® Buffer III: 25% FastGene® Buffer IV: 100% FastGene® FastCut Buffer: 100%

It is not affected by dam, dcm, or mammalian CpG methylation.

Source: Helicobacter pylori CH4

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 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	Xμl
10X FastGene® Buffer IV	1 X	5 μΙ
НруСН4 V	5 unit	1 µl
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
HpyCH4 V	5 unit	1 µl
Sterile water		up to 50 μl
In a least at 27% for 15 and		

→ 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.