



Restriction Enzyme Mun I



Cat.#	Size	Conc.
FG-MunI	300 units	10 units/ μ l

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

Mycoplasma unidentified

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 min 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 μ g/ml BSA

Unit definition

One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.

Quality control

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

Standard reaction condition

- Normal protocol

Component	Final Conc.	Volume
Substrate DNA	1 μ g	X μ l
10X FastGene® Buffer II	1 X	5 μ l
Mun I	10 unit	1 μ l
Sterile water		up to 50 μ l

→ Incubate at 37°C for 1 hr

- Fast protocol

Component	Final Conc.	Volume
Substrate DNA	1 μ g	X μ l
10X FastGene® FastCut Buffer	1 X	5 μ l
Mun I	10 unit	1 μ l
Sterile water		up to 50 μ l

→ Incubate at 37°C for 15 min

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

Dilution buffer

FastGene® Diluent A

Heat Inactivation

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

Methylation sensitivity

dam methylation: Not sensitive

dcm methylation: Not sensitive

CpG methylation: Not sensitive

Relative activity in FastGene® Buffers

FastGene® Buffer I: 100%

FastGene® Buffer II: 100%

FastGene® Buffer III: 10%

FastGene® Buffer IV: 100%

FastGene® FastCut Buffer: 100%

Note

It is an isoschizomer of Mfe I.