

Product Description

This product, EcoR I GMP-grade, is a type IIS restriction endonuclease. Its recognition and cleavage sequence is as follows:

5'.....G ↓ AATTC3'

3'.....CTTAA ↑ G5'

Components

Components	GMP-BP-E16-2K	GMP-BP-E16-20K	GMP-BP-E16-200K
	2 KU	20 KU	200 KU
EcoR I GMP-grade	0.1 mL	1 mL	10 mL
10×EcoR I Reaction Buffer	1 mL	5 mL	50 mL

Storage

Store at -20±5°C

Quality control

1. Solution appearance: clear and transparent, free of visible particulate matter.
2. Activity >20 U/μL.
3. Protein purity ≥95%.
4. Free of exogenous DNase, RNase, exonuclease, and endonuclease activity.
5. Residual host-cell DNA: ≤100 pg/mg.
6. Residual host-cell protein: <50 ppm.
7. Heavy metals <10 ppm.
8. HBV, HCV, HIV, and mycoplasma: not detected.
9. Bacterial endotoxin: <5 EU/mL.
10. pH 6.5-8.5.

Recommended Digestion System:

Components	Volume
10×EcoR I Reaction Buffer	2 μL
EcoR I GMP-grade	1 μL
DNA Template	1 μg
ddH ₂ O	To 20 μL

Reaction Programme: 37°C for 1h.

Application

1. Digesting plasmids to prepare linearized DNA fragments with poly(A/T/G/C) ends.
2. Digesting DNA to obtain specific sticky ends.

Notes

1. Final restriction digest content is no more than 1/10 of total reaction volume.
2. Prepare reaction mix on ice.
3. Please thaw and mix thoroughly before use. Avoid repeated freezing and thawing.