

EcoO109 I

Cat. No.	용량	농도
DYR1370	2,000 units	10 units/μl
DYR1372	4,000 units	10 units/μl
DYR1374	10,000 units	10 units/μl
DYR1376	10,000 units	50 units/μl

◆ **제품구성**

- EcoO109 I
- 10X DY Buffer IV
- 10X FastCut Buffer
- Sterile water
- Dyne 6X DNA Loading Buffer ver.2

◆ **Source**

- *E. coli H709c*

◆ **Quality control**

- Unit definition assay
- Overdigestion assay
- Endonuclease assay
- Extreme purity assay

◆ **인식부위**



Single letter code	
W = A or T	S = C or V = A or C or G
N = A or C or G or TG	M = A or C
K = G or T	R = A or G
Y = C or T	B = C or G or T
D = A or G or T	H = A or C or T

◆ **보관온도**

- -20°C

◆ **Heat inactivation**

- 65°C, 20분.

◆ **Unit정의**

- 1 unit은 박테리오파지 λ DNA(Hind III digestion) 1 μg을 50 μl 반응물로 37°C에서 1시간 동안 완전히 분해하는데 필요한 효소의 양이다.

◆ **Buffer별 상대적 활성도**

I	II	III	IV	Fastcut
50%	75%	100%	100%	100%

◆ **Methylation effect**

Methylation	dam	Dcm	CpG
Cleavage	Cleavage	Conditional	Cleavage

◆ **주의사항**

- Dra II의 동일서열인식 제한효소이다. 인지서열의 부분적으로 중복된 dcm 메틸화(methylation)는 활성을 저해한다.

◆ **표준반응 조건**

- Normal Protocol

Component	농도	Volumn
Substrate DNA	1 ug	X ul
10X DY Buffer III	1 X	5 ul
EcoO109 I		Substrate dependent
Sterile water		Up to 50 ul

- * Incubate at 37°C for 1 hr

- Fast Protocol

Component	농도	Volumn
Substrate DNA	1 ug	X ul
10X Fastcut Buffer	1 X	5 ul
EcoO109 I	20 unit	1 ul
Sterile water		Up to 50 ul

- * Incubate at 37°C for 15 min