

## Dpn II

Cat. No.	용량	농도
DYR1330	1,000 units	10 units/μl
DYR1332	2,000 units	10 units/μl
DYR1334	5,000 units	10 units/μl
DYR1336	5,000 units	50 units/μl

### ◆ 제품구성

Dpn II  
 10X DY Buffer **Dpn II**  
 10X FastCut Buffer  
 Sterile water  
 Dyne 6X DNA Loading Buffer ver.2

### ◆ Source

· *Diplococcus pneumoniae* G41

### ◆ 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 1 μg을 50 μl 반응물로 37°C에서 1시간 동안 완전히 분해하는데 필요한 효소의 양이다.

### ◆ Buffer별 상대적 활성도

I	II	III	IV	FastCut
25%	75%	100%	75%	100%

### ◆ Methylation effect

Methylation	<i>dam</i>	<i>dcm</i>	CpG
Cleavage	No Cleavage	Cleavage	Cleavage

### ◆ 주의사항

· Dpn II는 Mbo I의 동일서열인식 제한효소이다.  
*dam* 메틸화(methylation)는 활성을 저해한다.

### ◆ 표준반응 조건

· Normal Protocol

Component	농도	Volume
Substrate DNA	1 μg	X μl
10X DY Buffer <b>Dpn II</b>	1 X	5 μl
Dpn II		Substrate dependent
Sterile water		Up to 50 μl

\* Incubate at 37°C for 1 hr

· Fast Protocol

Component	농도	Volume
Substrate DNA	1 μg	X μl
10X FastCut Buffer	1 X	5 μl
Dpn II	10 unit	1 μl
Sterile water		Up to 50 μl

\* Incubate at 37°C for 15 min