

## Alw26 I

| Cat. No. | 용량          | 농도          |
|----------|-------------|-------------|
| DYR1050  | 1,000 units | 10 units/μl |
| DYR1052  | 2,000 units | 10 units/μl |
| DYR1054  | 5,000 units | 10 units/μl |
| DYR1056  | 5,000 units | 50 units/μl |

### ◆ 제품구성

Alw26 I  
10X DY Buffer IV  
10X FastCut Buffer  
Sterile water  
Dyne 6X DNA Loading Buffer ver.2

### ◆ Source

· *Acinetobacter lwoffii* RFL26

### ◆ Quality control

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

### ◆ 인식부위



#### Single letter code

|                              |                                 |
|------------------------------|---------------------------------|
| <b>W</b> = A or T            | <b>S</b> = C or V = A or C or G |
| <b>N</b> = A or C or G or TG | <b>M</b> = A or C               |
| <b>K</b> = G or T            | <b>R</b> = A or G               |
| <b>Y</b> = C or T            | <b>B</b> = C or G or T          |
| <b>D</b> = A or G or T       | <b>H</b> = A or C or T          |

### ◆ 보관온도

· -20°C

### ◆ Unit정의

· 1 unit은 박테리오파지 λ DNA 1 μg을 50 μl 반응물로 37°C에서 1시간 동안 완전히 분해하는데 필요한 효소의 양이다.

### ◆ Heat inactivation

· 65°C for 20 min.

### ◆ Buffer별 상대적 활성도

| I   | II   | III | IV   | FastCut |
|-----|------|-----|------|---------|
| 75% | 100% | 50% | 100% | 100%    |

### ◆ Methylation effect

| Methylation | <i>dam</i> | <i>Dcm</i> | CpG         |
|-------------|------------|------------|-------------|
| Cleavage    | Cleavage   | Cleavage   | Conditional |

### ◆ 주의사항

· Alw23 I은 BsmA I의 동일서열인식제한효소(isoschizomer)이다. CpG 메틸화(methylation)은 mammalian genomic DNA 절단을 저해한다.

### ◆ 표준반응 조건

· Normal Protocol

| Component        | 농도   | Volume              |
|------------------|------|---------------------|
| Substrate DNA    | 1 μg | X μl                |
| 10X DY Buffer IV | 1 X  | 5 μl                |
| Alw26 I          |      | 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        |
| Alw26 I            | 10 unit | 1 μl        |
| Sterile water      |         | Up to 50 μl |

\* Incubate at 37°C for 15 min