

BsmB I

| Cat. No. | 용량 | 농도 |
|----------|-------------|-------------|
| DYR1210 | 200 units | 10 units/μl |
| DYR1212 | 400 units | 10 units/μl |
| DYR1214 | 1,000 units | 10 units/μl |
| DYR1216 | 1,000 units | 50 units/μl |

◆ **제품구성**

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

◆ **Source**

- *Bacillus stearothermophilus* B61

◆ **Quality control**

- Unit definition assay
- Over digestion 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

◆ **Unit정의**

- 1 unit은 박테리오파지 λ DNA 1 μg을 50 μl 반응물로 55°C에서 1시간 동안 완전히 분해하는데 필요한 효소의 양이다.

◆ **Heat inactivation**

- 80°C, 20분.

◆ **Buffer별 상대적 활성도**

| I | II | III | IV | FastCut |
|-----|-----|------|-----|---------|
| 10% | 50% | 100% | 25% | 100% |

◆ **Methylation effect**

| Methylation | dam | dcm | CpG |
|-------------|----------|----------|-------------|
| Cleavage | Cleavage | Cleavage | No Cleavage |

◆ **주의사항**

- BsmB I은 Esp3 I의 동일서열인식 제한효소이다. 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 III | 1 X | 5 μl |
| BsmB I | | Substrate dependent |
| Sterile water | | Up to 50 μl |

- * Incubate at 55°C for 1 hr

- Fast Protocol

| Component | 농도 | Volume |
|--------------------|---------|-------------|
| Substrate DNA | 1 ug | X ul |
| 10X FastCut Buffer | 1 X | 5 μl |
| BsmB I | 10 unit | 1 μl |
| Sterile water | | Up to 50 μl |

- * Incubate at 55°C for 15 min