

Dyne SmartCut Ssp I

◆ 제품종류

Cat. No.	용량	농도
DYR2200	1,000 units	20 units/μl
DYR2202	2,000 units	20 units/μl
DYR2204	5,000 units	20 units/μl
DYR2206	5,000 units	100 units/μl

◆ 제품구성

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

◆ Source

· *Sphaerotilus* species

◆ Quality control

· Unit definition assay
· Overdigestion assay
· Endonuclease assay
· Extreme purity assay

◆ 보관온도

· -20°C

◆ Heat inactivation

· 65°C, 20분

◆ 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

◆ 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
50%	100%	25%	100%	100%

◆ Methylation effect

Methylation	<i>dam</i>	<i>dcm</i>	CpG
Cleavage	Cleavage	Cleavage	Cleavage

◆ 표준반응 조건

· Normal Protocol

Component	농도	Volume
Substrate DNA	1 μg	X μl
10X DY Buffer IV	1 X	5 μl
Dyne SmartCut Ssp 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
Dyne SmartCut Ssp I	20 unit	1 μl
Sterile water		Up to 50 μl

* Incubate at 37°C for 15 min