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(24)

2003 10 11
10-0401484
2003 09 30

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(43)

2001-0111775
2001 12 20

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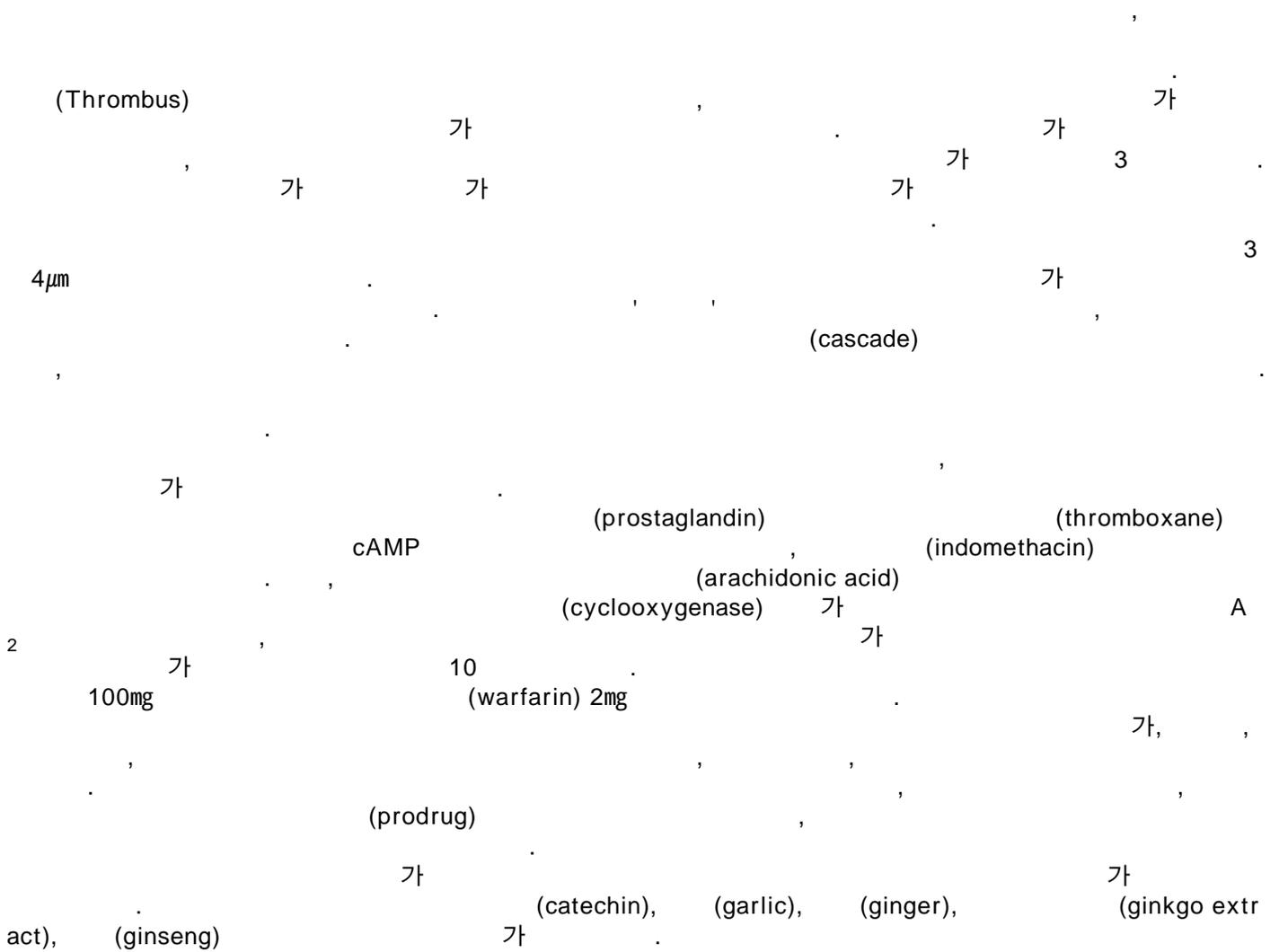
0.4, 0.3, 0.2mg/mL

3

(A)

(B)

4 (*Areca catechu*)
 5 , , , ADP ,
 6 95% (A) 50% (B) Sephadex LH-20
 7
 8



Sephadex LH-20

annii ; (*Cinnamomum burm*
 ; 가 (*Parameria laevigata*) ; (*Cinnamomum sintok*) ; (*W*
oodfordia floribunda) ; (*Homalomena javanica*)
 Sephadex LH-20
 (*Areca catechu*), (*Cinnamomum burmanni*),
 (*Cinnamomum sintok*), 가 (*Parameria laevigata*), (*W*
oodfordia floribunda) (*Homalomena javanica*) 가

Yokjakarta 1998 2

(Sprague-Dawley rat) , 4 5 S.D
 SPF(Specific Pathogen Free) 22 , 55% 12 200 ± 20
 g SD 3.8% trisodium citrate (blood : anticoagul
 ant = 9 : 1) (plastic syringes) 2
 (human whole blood) 20 24 anti-HIV, anti-HCV, HBs Ag 12 A
 5 가

1 :
 1 80 (mesh) 100g 400mL 75%
 100%(v/v) 2 (Wha
 tman No. 2)

75%

가 20 가

- 2 :
- 3 :
- 4 :
- 5 :
- 6 :
- 7 :
- 1 :

aggregometer(Chronolog, modle 500, Havertown, USA) impedance method
 450μℓ (0.85% NaCl) 430μℓ 37 cuvet
 te 1 6 75%(v/v) 20μℓ 1,2
 00rpm 37 10 10μℓ(10μg/mL)

10 (dimethylsulfoxide) 가 20mg/mL 가 10%(v/v) 20mg/mL

$$\text{항혈소판 활성(\%)} = \frac{\text{대조군의 저항값} - \text{시료의 저항값}}{\text{대조군의 저항값}} \times 100$$

100 μl (10 μ M), 13 μl (0.13 units), 20 μl (1 mM) 3 μl (3 μg/mL), ADP 10 5
 1, 20mg/Me, 0.4mg/mL, 50%
 (92.04 ± 1.25%), 99.43 ± 0.81%

[1]

| | | (%) | (%) |
|------------|--------------|------|----------------------------|
| Jambe | | 13.0 | 99.43 ± 0.81 ^{b)} |
| Kayu Manis | | 8.0 | 91.21 ± 9.05 |
| Sintok | | 8.0 | 85.44 ± 8.00 |
| Nampu | | 8.0 | 66.09 ± 13.19 |
| Kayu Rapat | 가 | 11.3 | 80.80 ± 8.32 |
| Sidowayah | | 25.5 | 85.02 ± 8.59 |
| | 92.04 ± 1.25 | | |
| [] a) : | 400 μg/mL. | | |

2 :

1 6 6, 1 가 0.4, 0.3, 0.2mg/mL가
 2 가
 가 95.00, 77.50 62.50% 6 100% 98.75%
 가 2 positive control
 00% (3). 가 0.2 0.4mg/mL 80 1
 0.100 0.166mg/mL, positive control 0.196mg/mL 1.800mg/mL IC₅₀
 IC₅₀ (3). IC₅₀ = 1.3mg/mL
 196mg/mL) 2, (1.8mg/mL) 18 0.1mg/mL (0.

[2]

| | (%) | | |
|--|-------|-------|--------|
| | 16.67 | 77.50 | 100.00 |
| | 48.89 | 95.00 | 98.75 |

| | | | |
|---|-------|--------|-------|
| | 0.00 | 62.50 | 97.50 |
| | 0.00 | -2.33 | 62.79 |
| 가 | 45.45 | 19.61 | 62.75 |
| | 14.55 | -48.04 | 78.43 |
| | 93.48 | | |

[3]

IC 50

| | IC ₅₀ (mg/mL) |
|---|--------------------------|
| | 0.100 |
| | 0.166 |
| | 0.270 |
| | 0.200 |
| 가 | 0.280 |
| | 0.290 |
| | 0.196 |
| | 1.800 |

3 : 1 6 , 75% TLC (Kiesel-gel 60 F₂₅₄, Merck, Sweden) (thin layer chromatography)
 : 10% H₂SO₄, = 1:7:1 1:1:1(v/v/v) (anisaldehyde) FeCl₃
 , FeCl₃ FeCl₃ 가
 2mL 가 0.2g 10mL , 100 0.2mL 가 0.2mL 2% Na₂CO₃
 , 750nm 50% Folin-Ciocalteu 30
 anillin(50:50 mixture of 1% vanillin/8% HCl in methanol) 5mL 가 , 100 , 1mL v
 500nm , 6가 FeCl₃ flavan dimeric spotting
 TLC R_f , 4
 , Flavanol vanillin , V/FC 가
 가

[4]

| | (%) | (%) | |
|--|-------|-------|-------|
| | 58.80 | 6.760 | 0.115 |

| | | | |
|---|-------|-------|-------|
| | 79.86 | 7.171 | 0.090 |
| | 39.20 | 1.750 | 0.045 |
| | 12.74 | 0.658 | 0.052 |
| 가 | 25.58 | 2.127 | 0.083 |
| | 4.68 | 0.841 | 0.180 |

4 :
 1 3 1 6
 100% 0.1mg/mL IC₅₀
 1 (75 100%)
 3μℓ(0.13units/mL), 20μℓ(1mM) ADP 10μℓ(10 μ M) 3μℓ(3μg/mL), 1
 5 , 75% 100% 60%
 , 100% 75%
 4 가 ,
 5 80% , ADP, 0.1mg/mL positive control agonist
 ADP 40% 40% 100% 가 , ADP
 2 가 3가 agonist 가
 가 0.1mg/mL 0%, 0.4mg/mL ADP 40%, 50%
 , ADP 0.121, 0.065, 0.063, 0.062mg/mL (6). IC₅₀ IC₅₀

[5]

| | |
|-----|---------|
| 75% | 100% |
| | |
| (%) | 56 54 |
| (%) | 12 9 |
| (%) | 97 80.6 |

[6]

IC₅₀

| | | | | |
|--|--------------------------|--------|-------|-------|
| | IC ₅₀ (mg/mL) | | | |
| | | | | ADP |
| | 0.121 | 0.065 | 0.063 | 0.062 |
| | 0.370 | >0.400 | 0.198 | 0.176 |

| | | | | |
|--|--------|--------|-------|-------|
| | >0.400 | 0.360 | 0.260 | 0.160 |
| | 0.290 | >0.400 | 0.210 | 0.245 |

5 : Sephadex LH-20 chromatography

hy umn loading 3g 50% 10mL UV 95% (280nm)가
 50% 3 4 420nm
 sephadex LH-20 chromatograp Sephadex LH-20(15x4.5cm) col

Sephadex LH-20 gel chromatography

95% (6) 6 , Fr. (27.14%) Fr. (68
 .05%) 50% 3 , Fr. -A(75.96%), Fr. -A(62
 .12%), Fr. -A(93.50%) , Fr.III-A 가 (7).
 (99.42 ± 0.811%)

[7]

95% 50% Sephadex LH-20

| Elution | Fraction No. | (%) |
|---------|--------------|--------|
| 95% | Fr. 1 30 | -22.4 |
| | Fr. 31 47 | 27.14 |
| | Fr. 48 55 | 0.00 |
| | Fr. 56 77 | -56.65 |
| | Fr. 78 105 | -14.75 |
| | Fr. 106 170 | 68.05 |
| 50% | Fr. -A 1 10 | 75.96 |
| | Fr. -A 11 37 | 62.12 |
| | Fr. -A 38 70 | 93.50 |

6 :

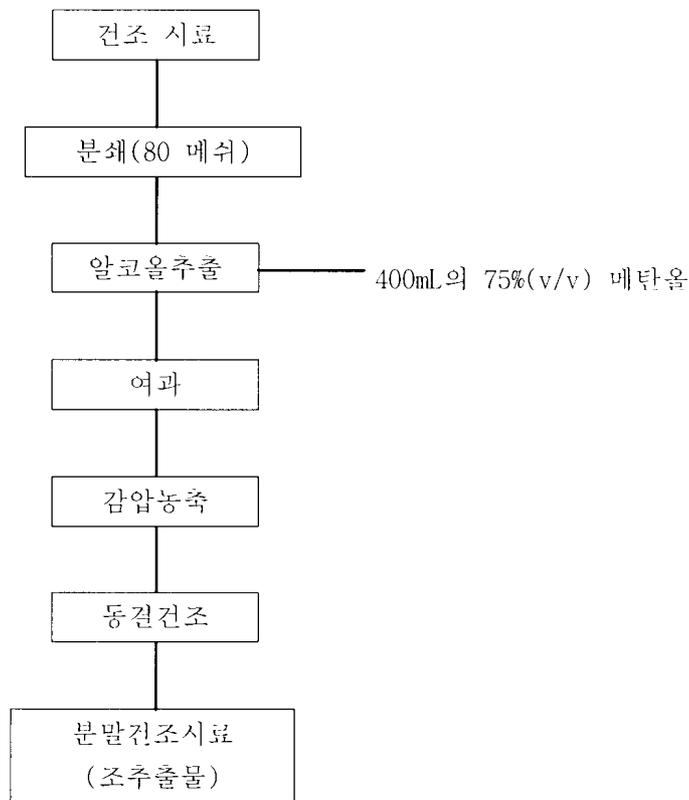
1 (cyclooxygenase) , PRP(
 platelet rich plasma) 1mL 20µl 가 37 10 agonist 가
 10 0.6M HCl 20%(w/v) (trichloroace
 tic acid) 1mL 0.1M NaOH 0.1M (thiobarbituric acid) 1mL
 75 20 20 3,000rpm(1,500 xg) 5
 535nm , PPP PRP 10,000 xg 3 PRP
 , 10µg/µl 10 30
 .49% 7 , 5, 10, 15, 20µg/mL 24.05, 51.51, 67.4, 80
 (8) 85% , 10µg/mL 가
 10 30 40% 가 30

가

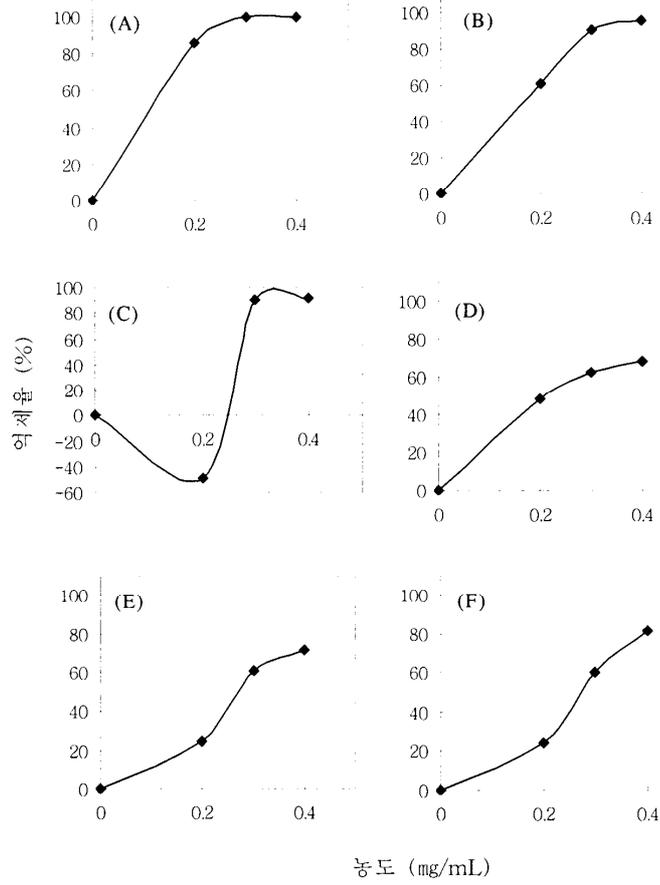
(57)

1. (*Areca catechu*), (*Cinnamomum burmanni*), (*Cinnamomum si*
ntok), 가 (*Parameria laevigata*), (*Woodfordia floribunda*)
 (*Homalomena javanica*)
- 2
- 2.
- 3.

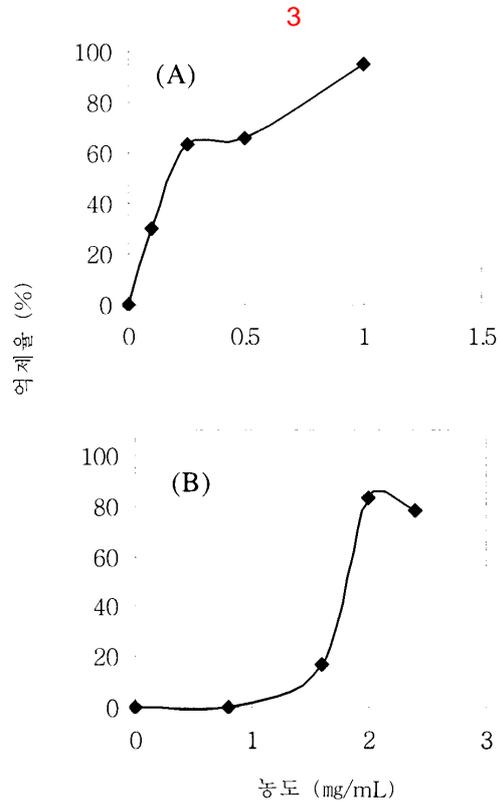
1



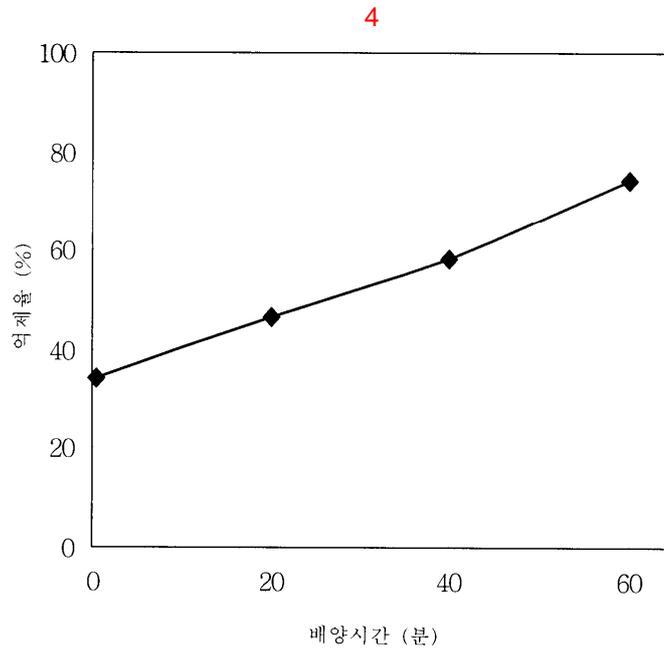
2



[보기] (A) : *A. catechu*, (B) : *C. burmanni*, (C) : *C. sintok*,
 (D) : *H. javanica*, (E) : *P. laevigata*, (F) : *W. floribunda*

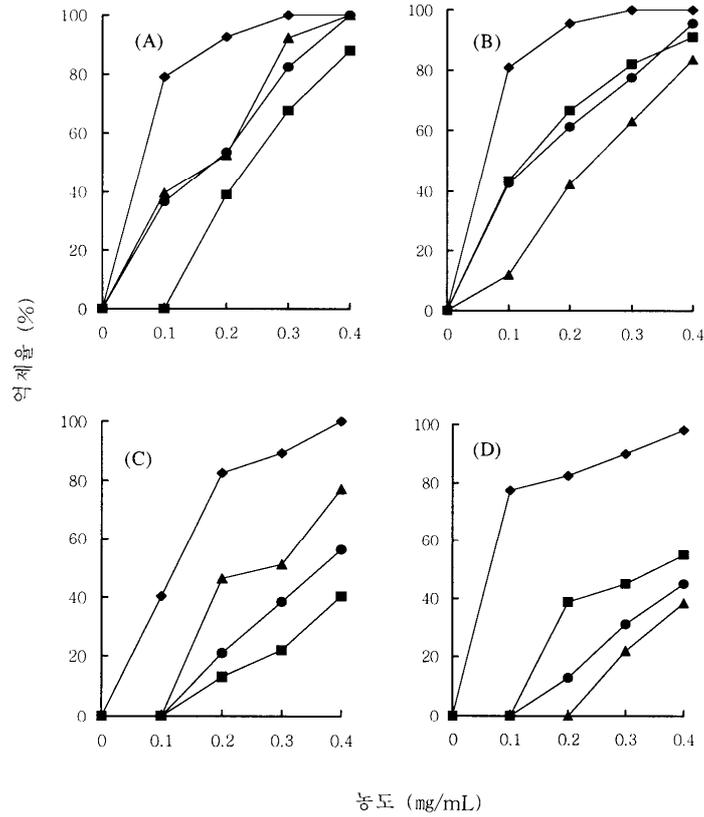


[보기] (A) : 아스피린, (B) : 카테킨



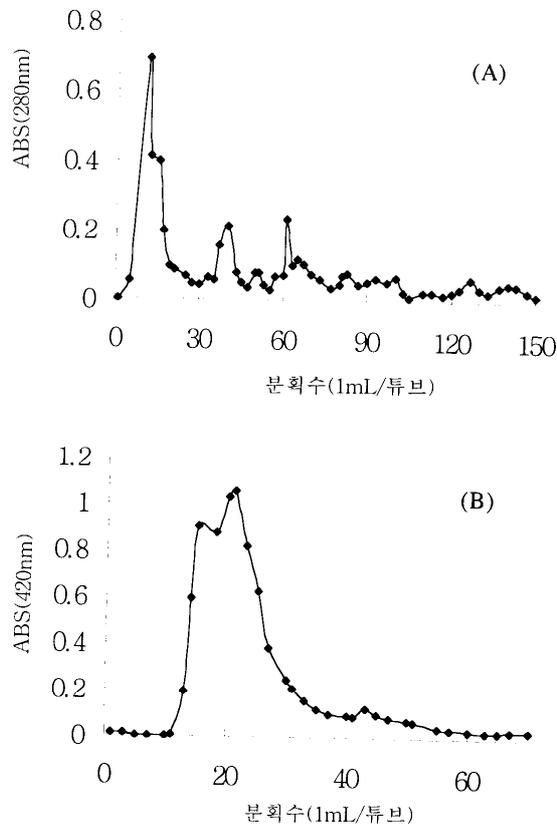
[보기] *A. catechu*의 농도는 0.1mg/mL.

5



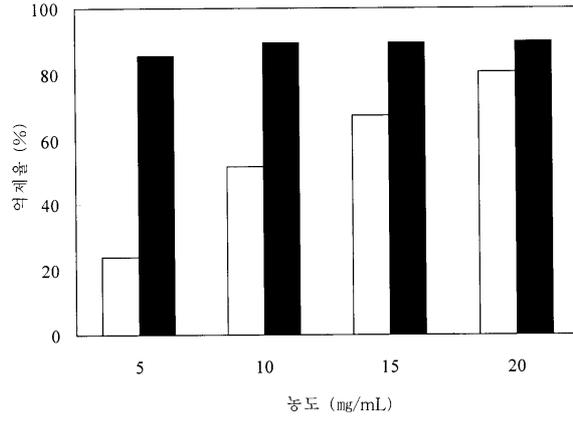
[보기] (A) : 아라키돈산 (1mM), (B) : ADP (10 μM),
 (C) : 콜라겐 (3 μg/mL), (D) : 트롬빈 (0.13 units/mL)
 ◆ : *A. catechu*, ■ : 카테킨, ▲ : 녹차추출물, ● : 아스피린

6



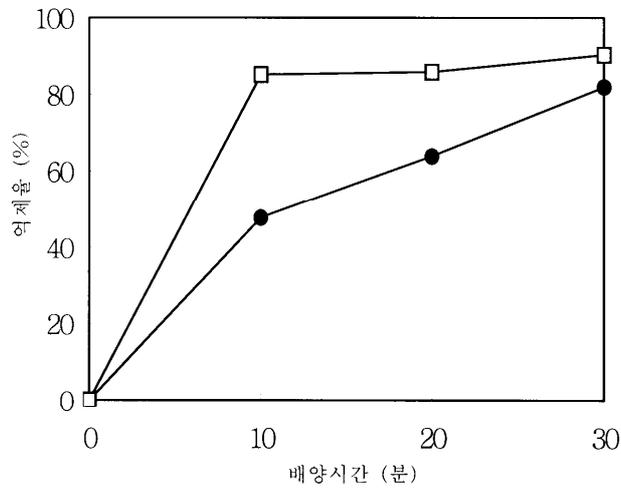
[보기] (A) : 95% 에탄올, (B) : 50% 아세톤

7



[보기] □ : *A. catechu*, ■ : 아스피린

8



[보기] □ : 아스피린, ● : *A. catechu*