

YMC APPLICATION DATA

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1

ビタミン
Vitamins

2

糖類
Carbohydrates

3

核酸
Nucleic acids

4

アミノ酸、ペプチド、
タンパク質
Amino acids, Peptides,
Proteins

5

有機酸、脂肪酸誘導体
Organic acids,
Fatty acid derivatives

6

食品添加物
Food additives

7

天然物
Natural products

8

ステロイド
Steroids

9

医薬品、生体関連物質
Drugs, Metabolites

10

抗菌剤、抗生物質
Antibiotics

11

農薬、環境関連物質
Pesticides,
Environmental

12

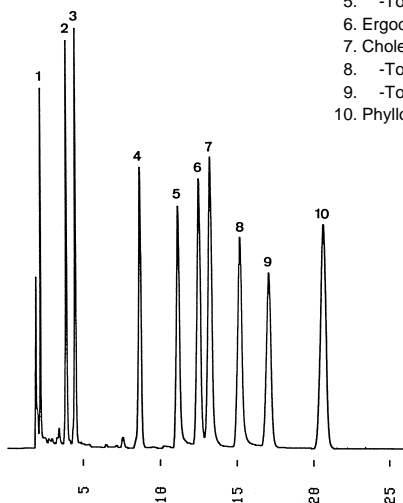
その他
The others

13

光学異性体
Optical isomers

脂溶性ビタミン Oil-soluble vitamins

1. Menadione (Vitamin K₃)
2. Retinol (Vitamin A)
3. Retinol acetate
4. Menaquinone (Vitamin K₂)
5. α-Tocopherol
6. Ergocalciferol (Vitamin D₂)
7. Cholecalciferol (Vitamin D₃)
8. γ-Tocopherol (Vitamin E)
9. γ-Tocopherol acetate
10. Phylloquinone (Vitamin K₁)

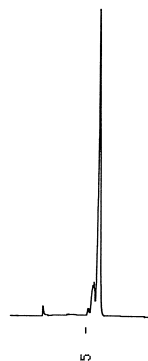


(G910415B)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 280 nm, 0.08 AUFS
Injection : 15 μ L (0.01 ~ 0.21 mg/mL)

ビタミンA脂肪酸エステル Vitamin A fatty acid ester

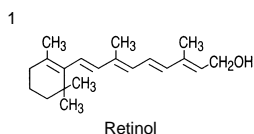
1. Retinol palmitate
(Vitamin A palmitate)



(G910523T)

Column : YMC-Pack SIL (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : cyclohexane/dichloromethane/acetic acid (100/0.5/0.5)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 350 nm, 0.32 AUFS
Injection : 5 μ L (1.0 mg/mL)

レチノール Retinol

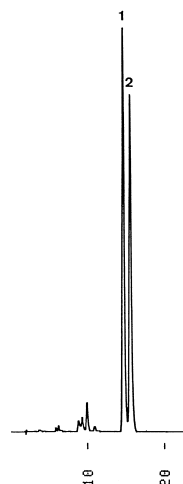


(A970708A)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/water (92/8)
Flow rate : 1.0 mL/min
Temperature : 35
Detection : UV at 325 nm, 0.02 AUFS
Injection : 20 μ L (0.5 μ g/mL)

カロテン Carotene

1. α-Carotene
2. β-Carotene

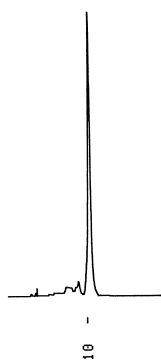


(G910523Q)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/methanol/THF (50/45/5)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : VIS at 450 nm, 0.16 AUFS
Injection : 5 μ L (0.05 mg/mL)

-カロテン
-Carotene

1. -Carotene

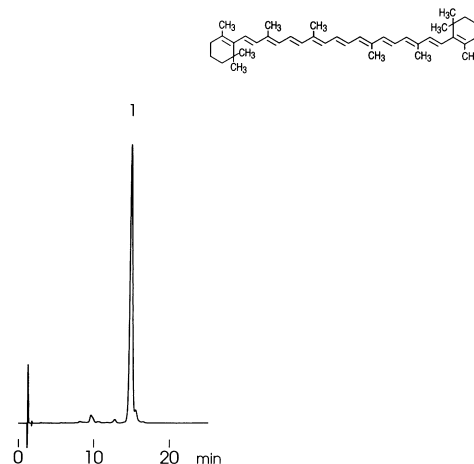


(M910529A)

Column : YMC-Pack CN (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : acetonitrile/water/THF (35/35/30)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : VIS at 450 nm, 0.32 AUFS
Injection : 7 μL (0.125 mg/mL)

-カロテン
-Carotene

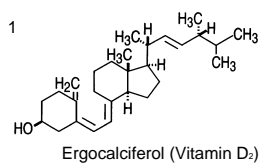
1. -Carotene



(A970716K)

Column : YMC-Pack ODS-AL (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/chloroform (96/4)
Flow rate : 1.5 mL/min
Temperature : 35
Detection : VIS at 455 nm, 0.04 AUFS
Injection : 20 μL (4.0 μg/mL)

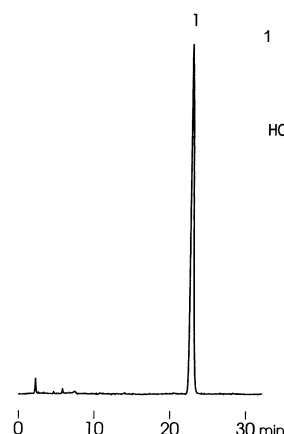
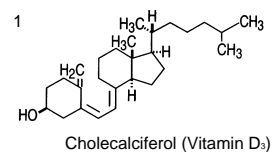
ビタミン D
Vitamin D



(C970808E)

Column : YMC-Pack SIL (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : hexane/2-propanol (99.6/0.4)
Flow rate : 1.6 mL/min
Temperature : ambient (28)
Detection : UV at 265 nm, 0.01 AUFS
Injection : 100 μL (1.0 μg/mL)

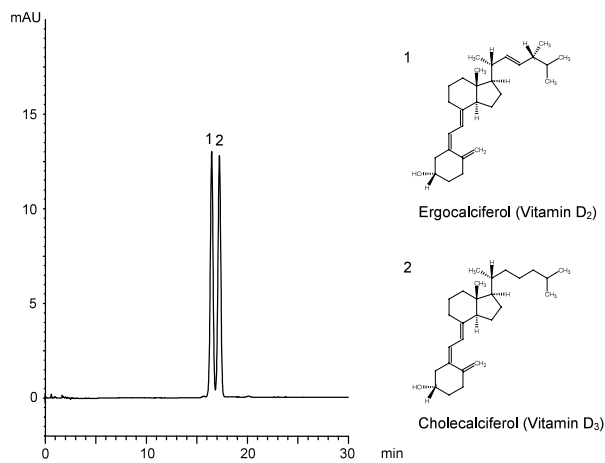
ビタミン D
Vitamin D



(C970808H)

Column : YMC-Pack SIL (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : hexane/2-propanol (99.6/0.4)
Flow rate : 1.6 mL/min
Temperature : ambient (28)
Detection : UV at 265 nm, 0.01 AUFS
Injection : 100 μL (1.0 μg/mL)

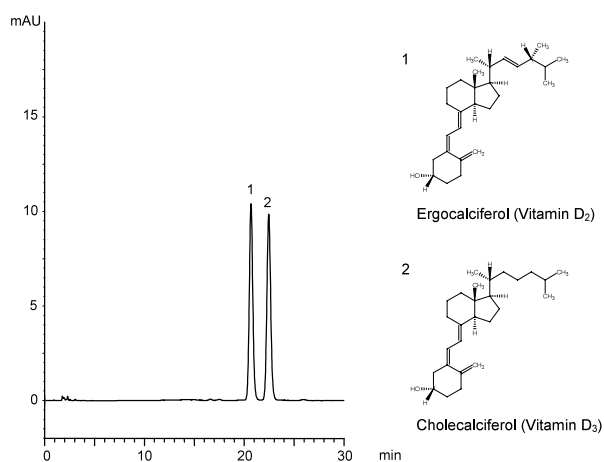
ビタミンD₂とビタミンD₃ Vitamin D₂ and vitamin D₃



(P040818A)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (95/5)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 265 nm
Injection : 10 μ L (0.01 mg/mL)

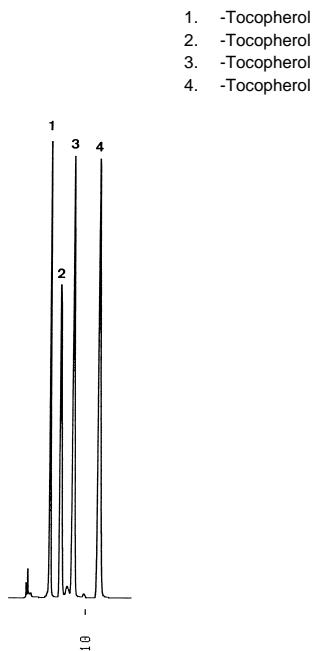
ビタミンD₂とビタミンD₃ Vitamin D₂ and vitamin D₃



(P040819C)

Column : YMC-Pack ODS-AL (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (95/5)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 265 nm
Injection : 10 μ L (0.01 mg/mL)

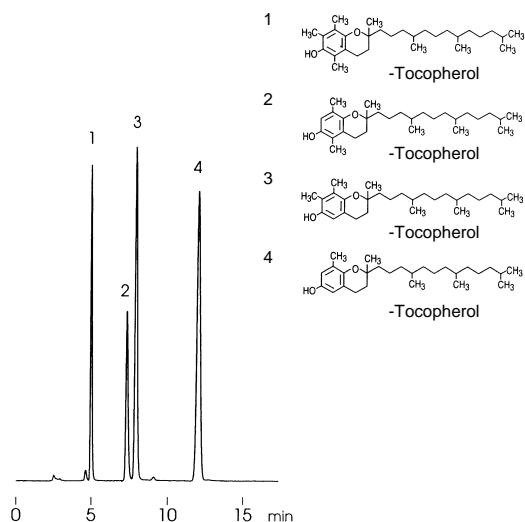
トコフェロール Tocopherols



(G910523S)

Column : YMC-Pack SIL (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : hexane/THF/acetic acid (97/3/0.25)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 295 nm, 0.08 AUFS
Injection : 10 μ L (0.20 ~ 0.31 mg/mL)

トコフェロール Tocopherols



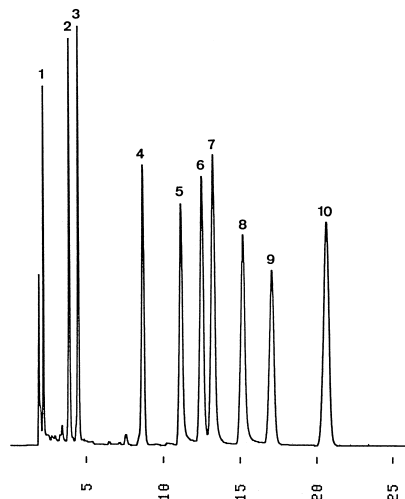
(S970702A)

Column : YMC-Pack SIL (5 μ m, 12nm)
250 × 4.6 mm I.D.
Eluent : hexane/2-propanol/acetic acid (1000/6/5)
Flow rate : 1.4 mL/min
Temperature : 35
Detection : FLS at Ex 298 nm, Em 325 nm
Injection : 20 μ L (5 ~ 20 μ g/mL)

トコフェロール

Tocopherols

1. -Tocopherol
2. -Tocopherol
3. -Tocopherol
4. -Tocopherol

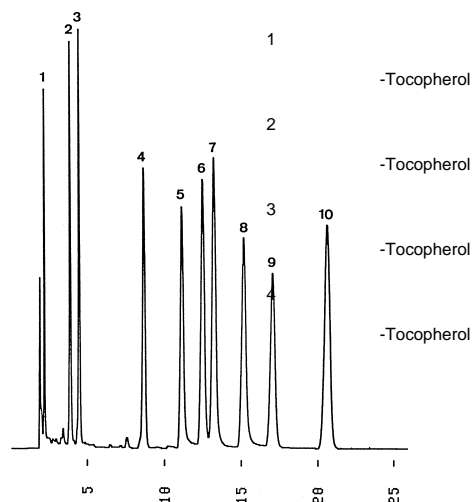


(T910501A)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : n-hexane/tetrahydrofuran/acetic acid/water (93/7/0.4/0.01)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 295 nm, 0.08 AUFS
Injection : 7 μL (0.25 mg/mL)

トコフェロール

Tocopherols

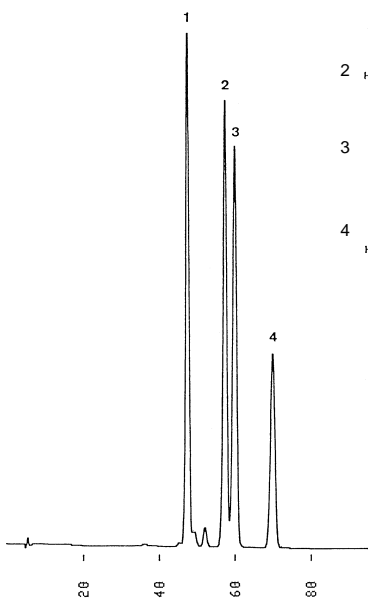
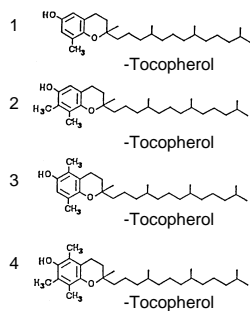


(T920728E)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : hexane/ethyl acetate (70/30)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 295 nm, 0.08 AUFS
Injection : 7 μL (0.25 mg/mL)

トコフェロール

Tocopherols

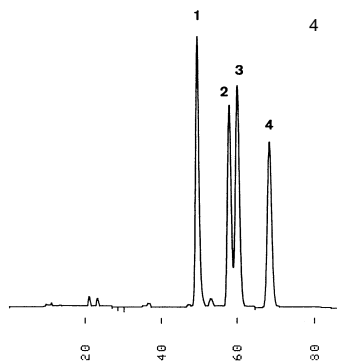
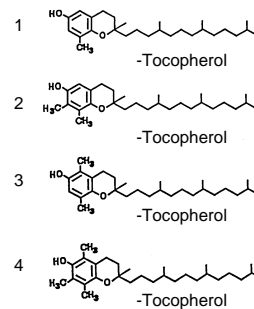


(S930726A)

Column : J'sphere ODS-M80 (4 μm, 8nm)
250 × 4.6 mm I.D.
Eluent : 2-propanol/water (68/32)
Flow rate : 0.5 mL/min
Temperature : 30
Detection : UV at 295 nm, 0.032 AUFS
Injection : 7 μL (0.25 mg/mL)

トコフェロール

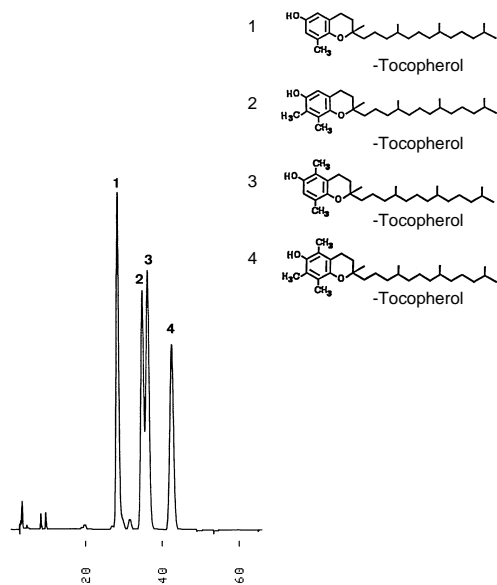
Tocopherols



(S921217A)

Column : YMC-Pack ODS-A (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : 2-propanol/water (75/25)
Flow rate : 0.3 mL/min
Temperature : 30
Detection : UV at 295 nm, 0.08 AUFS
Injection : 7 μL (0.25 mg/mL)
Ref.) Y.Satomura, M. Kimura and Y. Itokawa, J.Chromatogr., 625, 372-376 (1992)

トコフェロール
Tocopherols

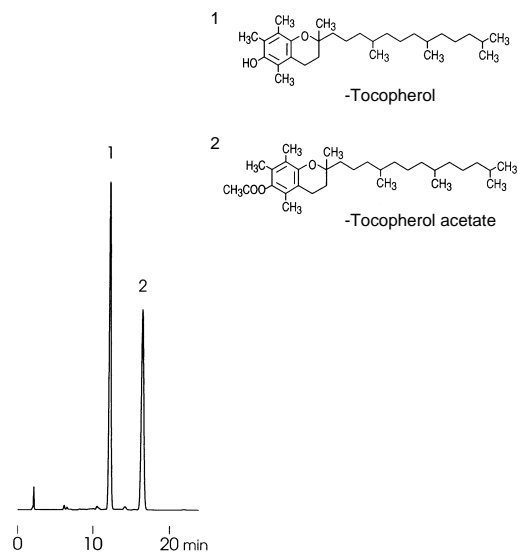


(S921216C)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : 2-propanol/water (65/35)
Flow rate : 0.7 mL/min
Temperature : 30
Detection : UV at 295 nm, 0.04 AUFS
Injection : 7 μ L (0.25 mg/mL)

Ref.) Y.Satomura, M. Kimura and Y. Itokawa, J.Chromatogr., 625, 372-376 (1992)

トコフェロールおよび酢酸トコフェロール
Tocopherol and tocopherol acetate

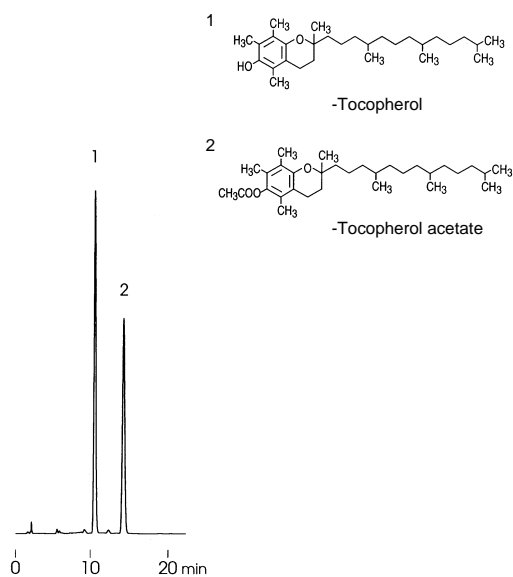


(S970426E)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/water (98/2)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 284 nm, 0.51 AUFS
Injection : 20 μ L (1 mg/mL)

(日本薬局方第13改正記載条件)

トコフェロールおよび酢酸トコフェロール
Tocopherol and tocopherol acetate

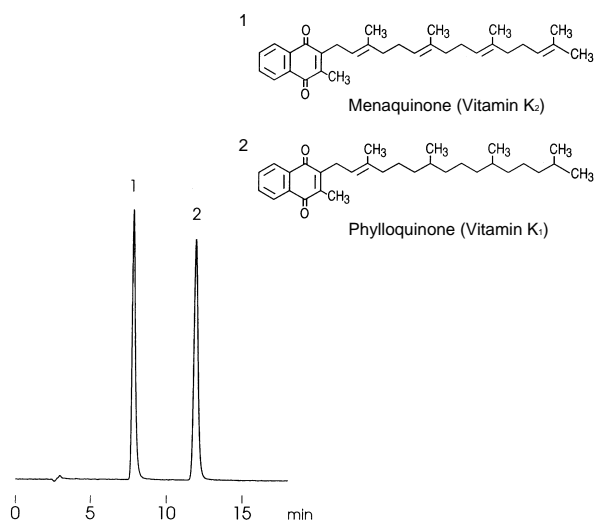


(S970426C)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/water (98/2)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 284 nm, 0.51 AUFS
Injection : 20 μ L (1 mg/mL)

(日本薬局方第13改正記載条件)

ビタミン K
Vitamin K



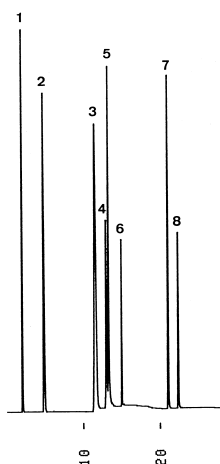
(A970728B)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/ethanol (5/1)
Flow rate : 0.8 mL/min
Temperature : 40
Detection : FLS at Ex 320 nm, Em 430 nm
reduction column (platinum black, 10 x 4.0 mm I.D.)
Injection : 20 μ L (100 ng/mL)

水溶性ビタミン

Water-soluble vitamins

1. L-Ascorbic acid (Vitamin C)
2. Nicotinic acid
3. Pyridoxine HCl (Vitamin B₆)
4. Nicotinamide
5. Thiamine HCl (Vitamin B₁)
6. Folic acid
7. Cyanocobalamin (Vitamin B₁₂)
8. Riboflavin (Vitamin B₂)



(G910415A)

Column : YMC-Pack ODS-A (5 μm, 12nm)
150 × 4.6 mm I.D.

Eluent : A)20mM KH₂PO₄ - K₂HPO₄ (pH 6.6)
B)20mM KH₂PO₄ - K₂HPO₄ (pH 6.6)/acetonitrile (80/20)
0%B (0-5min), 0-100%B (5-20min, linear), 100%B (20-25min)

Flow rate : 1.0 mL/min

Temperature : 30

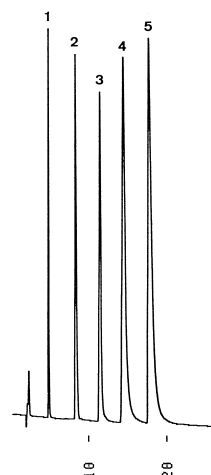
Detection : UV at 254 nm, 0.32 AUFS

Injection : 10 μL (0.04 ~ 0.31 mg/mL)

水溶性ビタミン

Water-soluble vitamins

1. Nicotinic acid
2. Pantothenic acid (Na salt)
3. Pyridoxine HCl (Vitamin B₆)
4. Nicotinamide
5. Thiamine HCl (Vitamin B₁)



(G9105230)

Column : YMC-Pack ODS-AM (5 μm, 12nm)
150 × 4.6 mm I.D.

Eluent : 20mM NaH₂PO₄ - Na₂HPO₄ (pH 6.5)

Flow rate : 1.0 mL/min

Temperature : 30

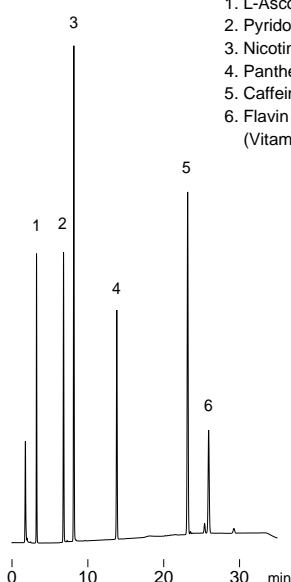
Detection : UV at 210 nm, 0.08 AUFS

Injection : 5 μL (0.02 ~ 0.58 mg/mL)

水溶性ビタミン

Water-soluble vitamins

1. L-Ascorbic acid (Vitamin C)
2. Pyridoxine HCl (Vitamin B₆)
3. Nicotinamide
4. Panthenol
5. Caffeine
6. Flavin mononucleotide sodium salt (Vitamin B₂)



(F001004B)

Column : Hydrosphere C18 (5 μm, 12nm)
150 × 4.6 mm I.D.

Eluent : A)50mM KH₂PO₄-H₃PO₄(pH3.5)
B)50mM KH₂PO₄-H₃PO₄(pH3.5)/acetonitrile (80/20)
0-60%B(0-20min), 60%B(20-30min)

Flow rate : 1.0 mL/min

Temperature : 30

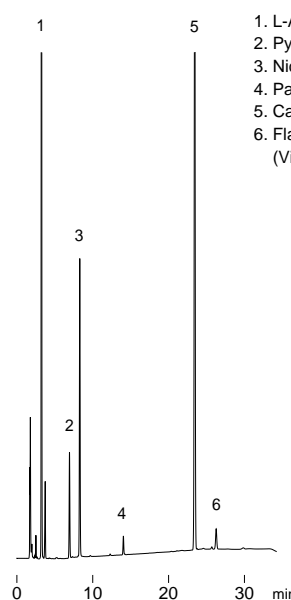
Detection : UV at 210 nm, 0.32AUFS

Injection : 5 μL (0.05 ~ 0.40 mg/mL)

市販ドリンク剤中の水溶性ビタミン

A drink including vitamins

1. L-Ascorbic acid (Vitamin C)
2. Pyridoxine HCl (Vitamin B₆)
3. Nicotinamide
4. Panthenol
5. Caffeine
6. Flavin mononucleotide sodium salt (Vitamin B₂)



(F001004A)

Column : Hydrosphere C18 (5 μm, 12nm)
150 × 4.6 mm I.D.

Eluent : A)50mM KH₂PO₄-H₃PO₄(pH3.5)
B)50mM KH₂PO₄-H₃PO₄(pH3.5)/acetonitrile (80/20)
0-60%B(0-20min), 60%B(20-30min)

Flow rate : 1.0 mL/min

Temperature : 30

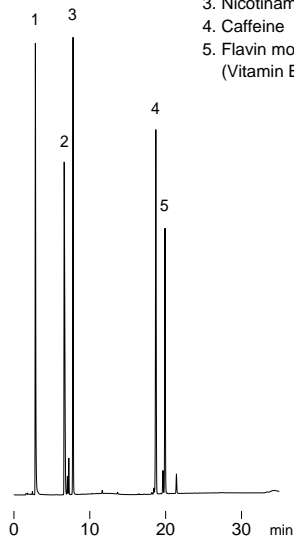
Detection : UV at 210 nm, 0.32AUFS

Injection : 5 μL

Sample : 5 times dilution with 5% metaphosphoric acid

水溶性ビタミン Water-soluble vitamins

1. Thiamine HCl (Vitamin B₁)
2. Pyridoxine HCl (Vitamin B₆)
3. Nicotinamide
4. Caffeine
5. Flavin mononucleotide sodium salt (Vitamin B₂)

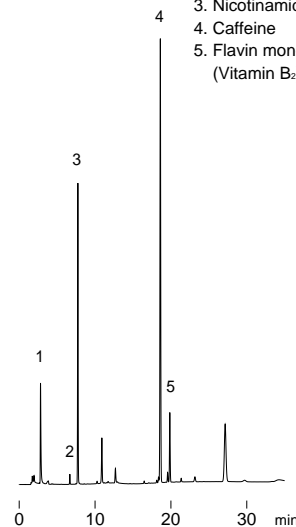


(F001011A)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : A)50mM KH₂PO₄-H₃PO₄(pH3.5)
B)50mM KH₂PO₄-H₃PO₄(pH3.5)/acetonitrile (80/20)
0-90%B(0-20min), 90%B(20-30min)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.32AUFS
Injection : 15 μ L (0.04 ~ 0.60 mg/mL)

市販ドリンク剤中の水溶性ビタミン A drink including vitamins

1. Thiamine HCl (Vitamin B₁)
2. Pyridoxine HCl (Vitamin B₆)
3. Nicotinamide
4. Caffeine
5. Flavin mononucleotide sodium salt (Vitamin B₂)

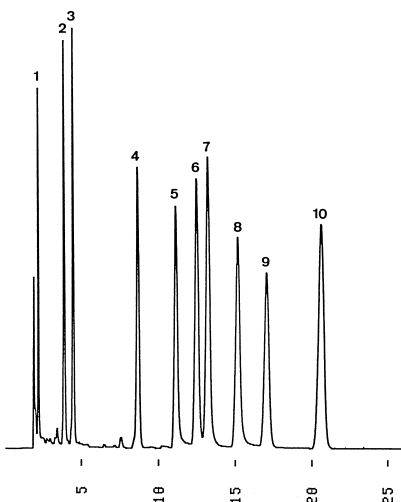


(F001011B)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : A)50mM KH₂PO₄-H₃PO₄(pH3.5)
B)50mM KH₂PO₄-H₃PO₄(pH3.5)/acetonitrile (80/20)
0-90%B(0-20min), 90%B(20-30min)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.32AUFS
Injection : 15 μ L
Sample : 5 times dilution with water

水溶性ビタミン Water-soluble vitamins

1. *p*-Aminobenzoic acid (PABA)
2. Biotin (Vitamin H)
3. Riboflavin (Vitamin B₂)
4. Cyanocobalamin (Vitamin B₁₂)

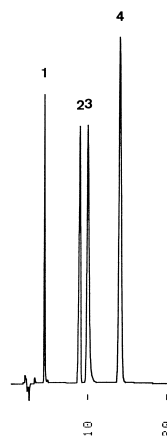


(M920212B)

Column : YMC-Pack Ph (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/50mM NH₄H₂PO₄ (10/90)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.16 AUFS
Injection : 10 μ L (0.02 ~ 0.30 mg/mL)

水溶性ビタミン Water-soluble vitamins

1. *p*-Aminobenzoic acid (PABA)
2. Biotin (Vitamin H)
3. Cyanocobalamin (Vitamin B₁₂)
4. Riboflavin (Vitamin B₂)



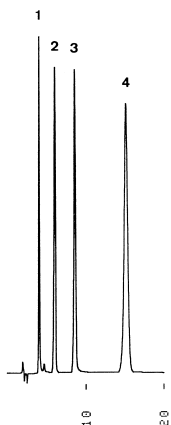
(M920212A)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/50mM NH₄H₂PO₄ (10/90)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.16 AUFS
Injection : 10 μ L (0.02 ~ 0.30 mg/mL)

水溶性ビタミン

Water-soluble vitamins

1. *p*-Aminobenzoic acid (PABA)
2. Biotin (Vitamin H)
3. Riboflavin (Vitamin B₂)
4. Cyanocobalamin (Vitamin B₁₂)



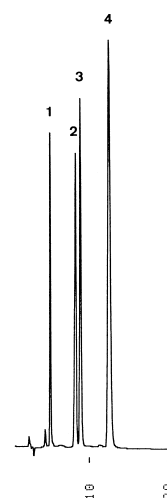
(M920212C)

Column : YMC-Pack TMS (5 μ m, 12nm)
 150 \times 4.6 mm I.D.
 Eluent : acetonitrile/50mM NH₄H₂PO₄ (10/90)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 210 nm, 0.16 AUFS
 Injection : 10 μ L (0.02 ~ 0.30 mg/mL)

水溶性ビタミン

Water-soluble vitamins

1. *p*-Aminobenzoic acid (PABA)
2. Biotin (Vitamin H)
3. Riboflavin (Vitamin B₂)
4. Cyanocobalamin (Vitamin B₁₂)



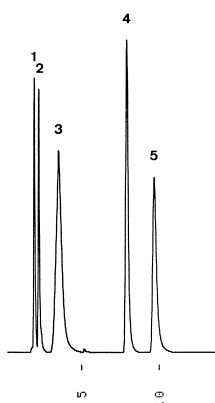
(M920212D)

Column : YMC-Pack C₈ (5 μ m, 12nm)
 150 \times 4.6 mm I.D.
 Eluent : acetonitrile/50mM NH₄H₂PO₄ (10/90)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 210 nm, 0.16 AUFS
 Injection : 10 μ L (0.02 ~ 0.30 mg/mL)

水溶性ビタミン

Water-soluble vitamins

1. L-Ascorbic acid (Vitamin C)
2. Orotic acid (Vitamin B₁₃)
3. Pyrroloquinoline quinone (PQQ)
4. Pyridoxine HCl (Vitamin B₆)
5. Nicotinamide



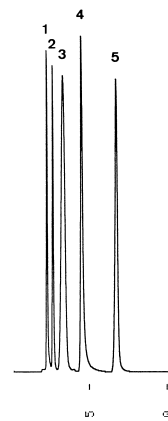
(M920207B)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
 150 \times 4.6 mm I.D.
 Eluent : 100mM CH₃COOH/100mM CH₃COONH₄ (30/70, pH 5.1)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 254 nm, 0.16 AUFS
 Injection : 10 μ L (0.04 ~ 0.20 mg/mL)

水溶性ビタミン

Water-soluble vitamins

1. L-Ascorbic acid (Vitamin C)
2. Orotic acid (Vitamin B₁₃)
3. Pyrroloquinoline quinone (PQQ)
4. Pyridoxine HCl (Vitamin B₆)
5. Nicotinamide

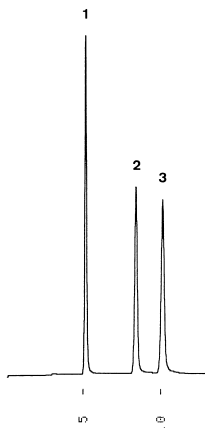


(M920207A)

Column : YMC-Pack TMS (5 μ m, 12nm)
 150 \times 4.6 mm I.D.
 Eluent : 100mM CH₃COOH/100mM CH₃COONH₄ (30/70, pH 5.1)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 254 nm, 0.16 AUFS
 Injection : 10 μ L (0.04 ~ 0.20 mg/mL)

水溶性ビタミン Water-soluble vitamins

1. Nicotinic acid
2. Erythorbic acid
3. L-Ascorbic acid

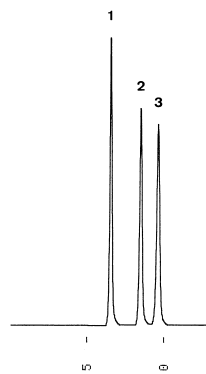


(T920525A)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/50mM NH₄H₂PO₄ (70/30)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 250 nm, 0.16 AUFS
Injection : 10 μL (0.05 ~ 0.1 mg/mL)

水溶性ビタミン Water-soluble vitamins

1. Nicotinic acid
2. Erythorbic acid
3. L-Ascorbic acid

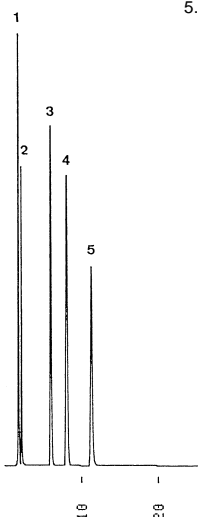


(T920525B)

Column : YMC-Pack NH₂ (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : acetonitrile/50mM NH₄H₂PO₄ (70/30)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 250 nm, 0.16 AUFS
Injection : 10 μL (0.05 ~ 0.1 mg/mL)

水溶性ビタミン Water-soluble vitamins

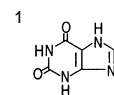
1. Pyridoxine HCl
2. Nicotinamide
3. Benfotiamine
4. Cyanocobalamin
5. Riboflavin



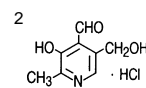
(S930712E)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/50mM (NH₄)₂HPO₄ (10/90)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.13 AUFS
Injection : 5 μL (0.04 ~ 0.48 mg/mL)

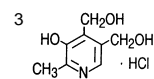
水溶性ビタミン Water-soluble vitamins



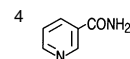
Xanthine(I.S.)



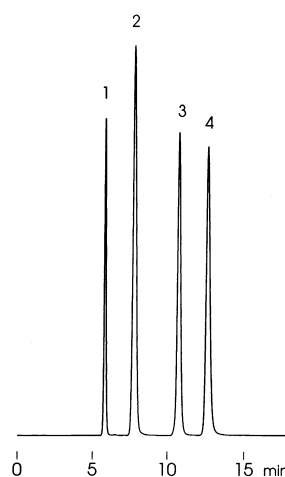
Pyridoxal HCl



Pyridoxine HCl



Nicotinamide

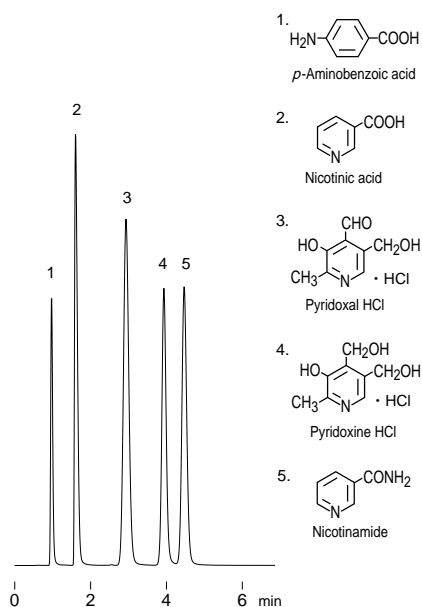


(S960912B)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM KH₂PO₄ - K₂HPO₄ (pH 6.9)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.13 AUFS
Injection : 5 μL (0.05 ~ 0.2 mg/mL)

水溶性ビタミン

Water-soluble vitamins

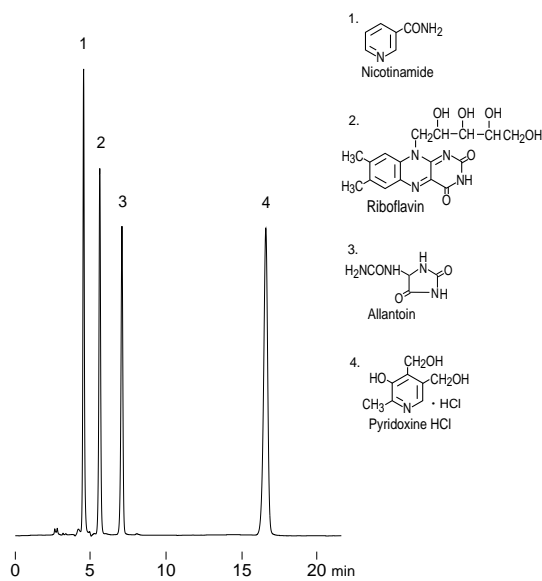


(S010125A)

Column : Hydrosphere C18 (3 μ m, 12nm)
50 \times 2.0 mm I.D.
Eluent : 10mM CH₃COONH₄
Flow rate : 0.2 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.128 AUFS
Injection : 2 μ L (0.01 ~ 0.1 mg/mL)

アラントインおよび水溶性ビタミン

Allantoin and water-soluble vitamins

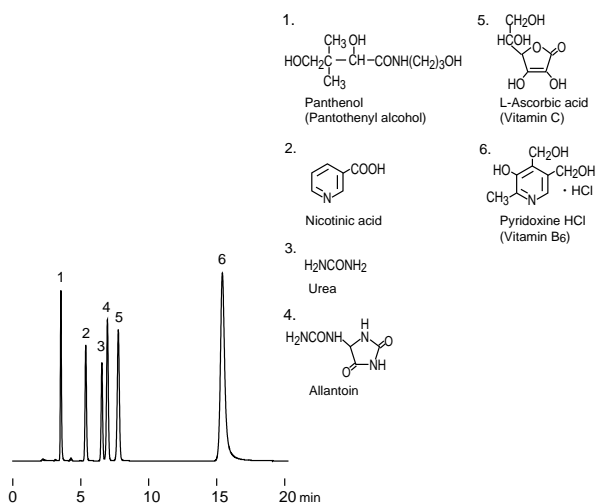


(S971121D)

Column : YMC-Pack NH₂ (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : 50mM NH₄H₂PO₄ - H₃PO₄ (pH 2.5) / acetonitrile (20/80)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.064 AUFS
Injection : 8 μ L (0.01 ~ 0.04 mg/mL)

尿素、アラントインおよび水溶性ビタミン

Urea, allantoin and water-soluble vitamins

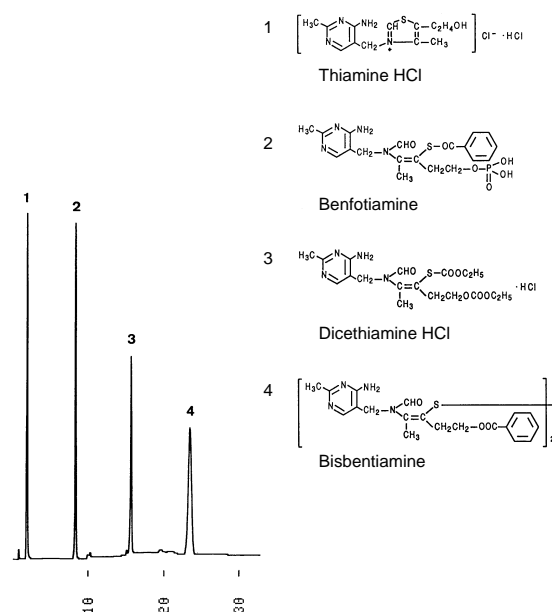


(J030624B)

Column : YMC-Pack Polyamine II
250 \times 4.6 mm I.D.
Eluent : 50mM NH₄H₂PO₄-H₃PO₄ (pH2.8)/acetonitrile (20/80)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.16 AUFS
Injection : 10 μ L (0.01 ~ 5.0 mg/mL)

ビタミンB₁誘導体

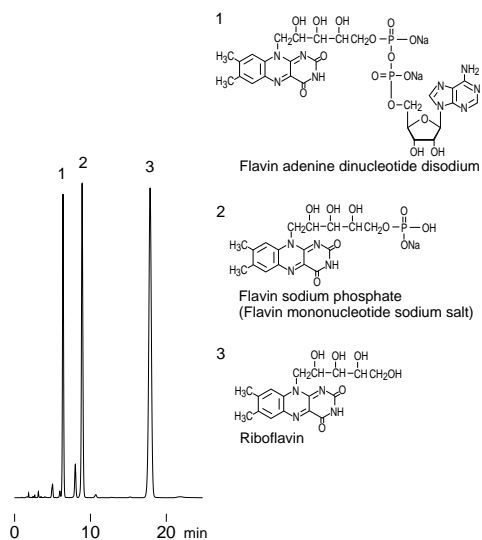
Thiamine and its modified compounds



(S940202D)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
75 \times 4.6 mm I.D.
Eluent : A)50mM (NH₄)₂HPO₄
B)methanol/50mM (NH₄)₂HPO₄ (60/40)
10-100%B (0-15min, linear), 100%B (15-30min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.26 AUFS
Injection : 10 μ L (0.1 ~ 0.2 mg/mL)

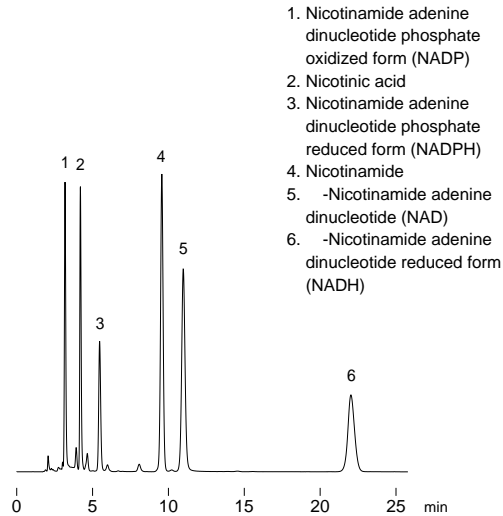
リボフラビンおよび関連化合物
Riboflavin and related compounds



(S000803B)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : 50mM KH₂PO₄ - K₂HPO₄ (pH 5.9) / acetonitrile (90/10)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.32 AUFS
Injection : 10 μ L (0.1 mg/mL)

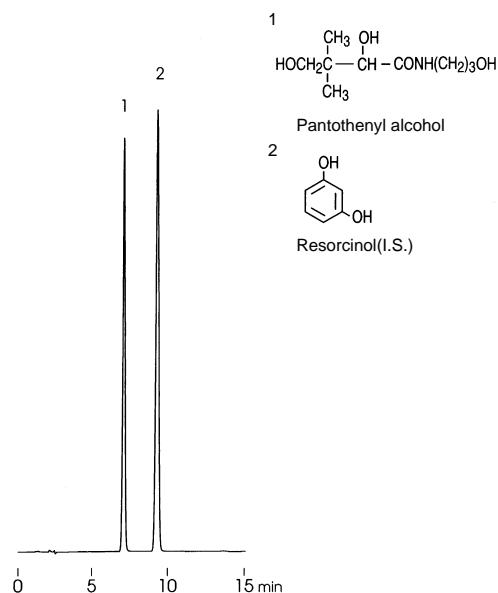
ニコチン酸誘導体
Nicotinic acid and derivatives



(F000707B)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM KH₂PO₄-K₂HPO₄(pH6.9)/acetonitrile (99/1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 6 μ L (0.05 ~ 0.10 mg/mL)

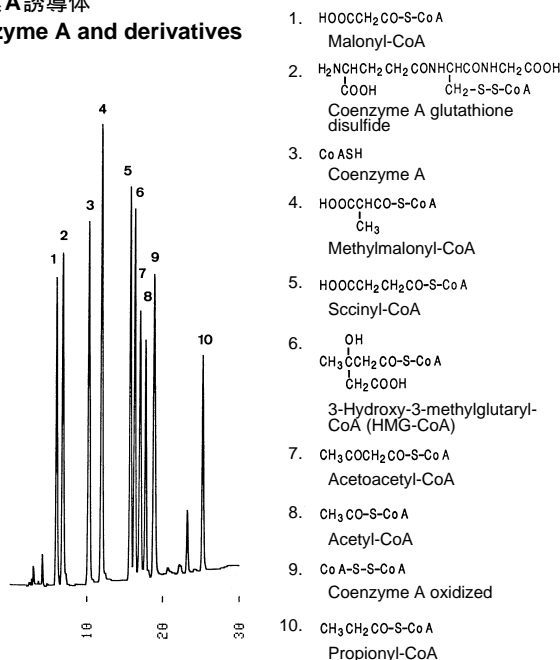
パントテニルアルコール
Pantothenyl alcohol



(S961119B)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (5/95)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.13 AUFS
Injection : 5 μ L (0.05 ~ 0.4 mg/mL)

補酵素A誘導体
Coenzyme A and derivatives



(S940630E)

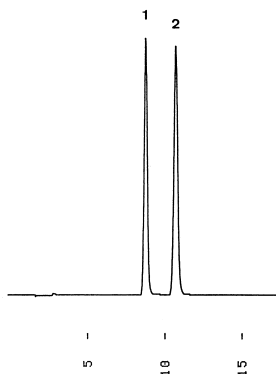
Courtesy of Dr. Takamura, Ibaraki University

Column : J'sphere ODS-M80 (4 μ m, 8nm)
150 × 4.6 mm I.D.
Eluent : A)methanol/50mM KH₂PO₄ (10/90)
B)methanol/50mM KH₂PO₄ (30/70)
10%B (0-5min), 10-100%B (5-30min)
Flow rate : 0.7 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.016 AUFS
Injection : 10 μ L (16.7 nmol/mL)

L-アスコルビン酸及びエリソルビン酸

L-Ascorbic acid and erythorbic acid

1. Erythorbic acid
2. L-Ascorbic acid (Vitamin C)



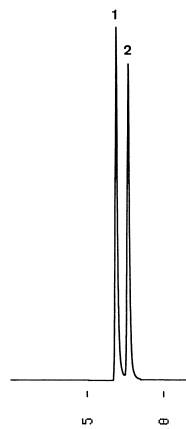
(T910425A)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/50mM NH₄H₂PO₄ (70/30)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 250 nm, 0.16 AUFS
Injection : 10 μL (0.1 mg/mL)

L-アスコルビン酸及びエリソルビン酸

L-Ascorbic acid and erythorbic acid

1. L-Ascorbic acid (Vitamin C)
2. Erythorbic acid



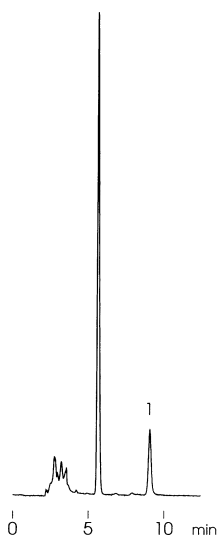
(G910523N)

Column : YMC-Pack ODS-AM (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM CH₃COONH₄ in 5mM tetrabutylammonium bromide
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 250 nm, 0.08 AUFS
Injection : 5 μL (0.05 mg/mL)

L-アスコルビン酸の2,4-DNPH誘導体

2,4-Dinitrophenylhydrazone of L-ascorbic acid

1. L-Ascorbic acid 2,4-DNPH

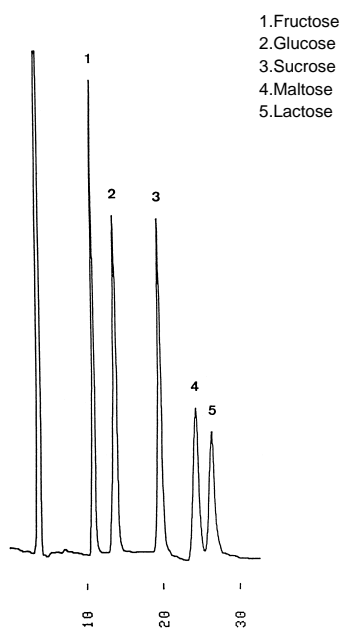


(C970808K)

Column : YMC-Pack SIL (5 μm, 12nm)
150 × 6.0 mm I.D.
Eluent : hexane/ethyl acetate/2-propanol/acetic acid (40/30/2/1)
Flow rate : 1.5 mL/min
Temperature : 35
Detection : VIS at 540 nm, 0.01 AUFS
Injection : 20 μL (10 μg/mL)

単糖及び二糖類

Monosaccharides and disaccharides

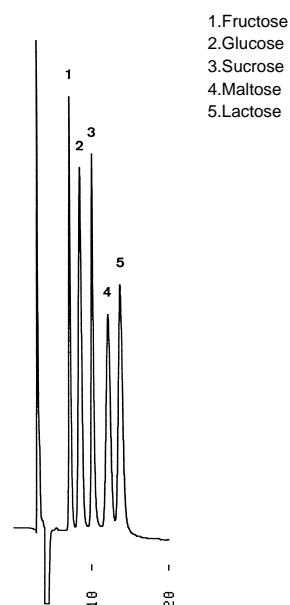


(T910726A)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (75/25)
Flow rate : 1.0 mL/min
Temperature : 26
Detection : RI, 32 × 10⁻⁶ RIU/FS
Injection : 5 μL (14.3 ~ 28.6 mg/mL)

単糖及び二糖類

Monosaccharides and disaccharides

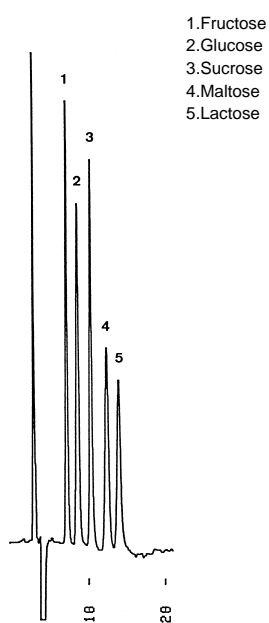


(T910723A)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : ethanol/ethyl acetate/acetonitrile/water (30/40/5/25)
Flow rate : 1.0 mL/min
Temperature : 26
Detection : RI, 32 × 10⁻⁶ RIU/FS
Injection : 5 μL (14.3 ~ 28.6 mg/mL)

単糖及び二糖類

Monosaccharides and disaccharides

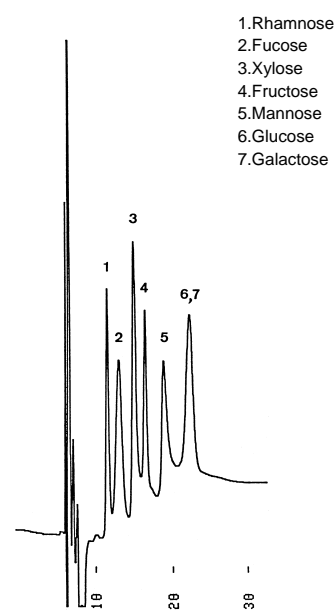


(T910718E)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : ethanol/ethyl acetate/acetonitrile/water (30/40/5/25)
Flow rate : 1.0 mL/min
Temperature : 35
Detection : RI, 32 × 10⁻⁶ RIU/FS
Injection : 5 μL (14.3 ~ 28.6 mg/mL)

単糖類

Monosaccharides

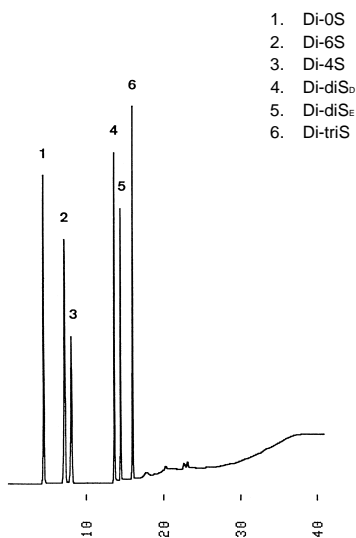


(T910718D)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D. × 2
Eluent : ethanol/ethyl acetate/acetonitrile/water (30/30/23/17)
Flow rate : 1.0 mL/min
Temperature : 26
Detection : RI, 16 × 10⁻⁶ RIU/FS
Injection : 25 μL (0.65 ~ 115.6 mg/mL)

不飽和コンドロニ糖

Unsaturated chondro-disaccharides



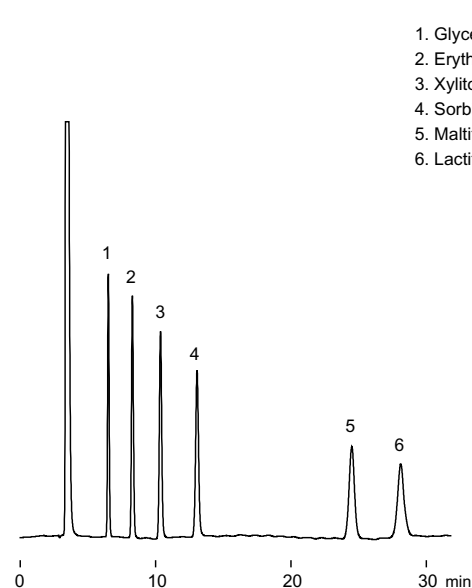
1. Di-OS
2. Di-6S
3. Di-4S
4. Di-diS_b
5. Di-diS_e
6. Di-triS

(T910920A)

Column : YMC-Pack NH₂ (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : A) 0.01M NH₄H₂PO₄ - (NH₄)₂HPO₄ (pH 6.7)
B) 0.5M NH₄H₂PO₄ - (NH₄)₂HPO₄ (pH 6.7)
0%B (0-5min), 0-100%B (5-30min, linear), 100%B (30-40min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 232 nm, 0.32 AUFS
Injection : 9 μL (0.12 ~ 0.24 mg/mL)

糖アルコール

Sugar alcohols



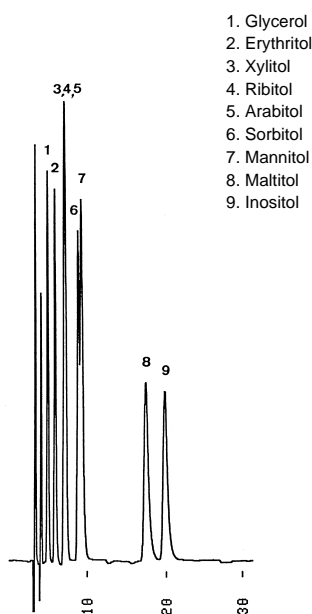
1. Glycerol
2. Erythritol
3. Xylitol
4. Sorbitol
5. Maltitol
6. Lactitol

(F030603A)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (75/25)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : RI, 32 × 10⁶ RIU/FS
Injection : 5 μL (5.0 mg/mL)

糖アルコール

Sugar alcohols



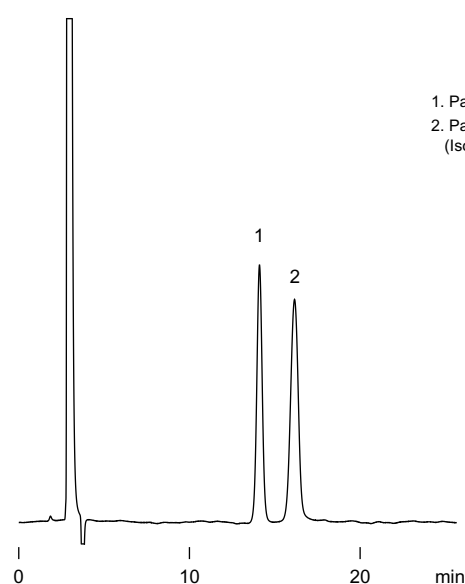
1. Glycerol
2. Erythritol
3. Xylitol
4. Ribitol
5. Arabitol
6. Sorbitol
7. Mannitol
8. Maltitol
9. Inositol

(T910718B)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : ethanol/ethyl acetate/acetonitrile/water (30/30/25/15)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : RI, 32 × 10⁶ RIU/FS
Injection : 15 μL (1.7 ~ 3.3 mg/mL)

パラチノースとパラチニット

Palatinose and Palatinin



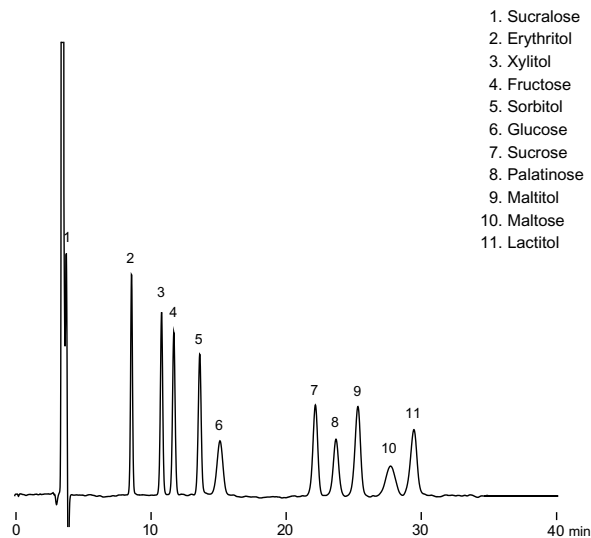
1. Palatinose
2. Palatinin (*)
(Isomalt)

(*) Mixture of 6-O-β-D-Glucopyranosyl-D-sorbitol
and 1-O-β-D-Glucopyranosyl-D-mannitol

(F030616B)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (70/30)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : RI, 64 × 10⁶ RIU/FS
Injection : 15 μL (5.0 mg/mL)

糖類および甘味料の一斉分析 Sugars and sweeteners

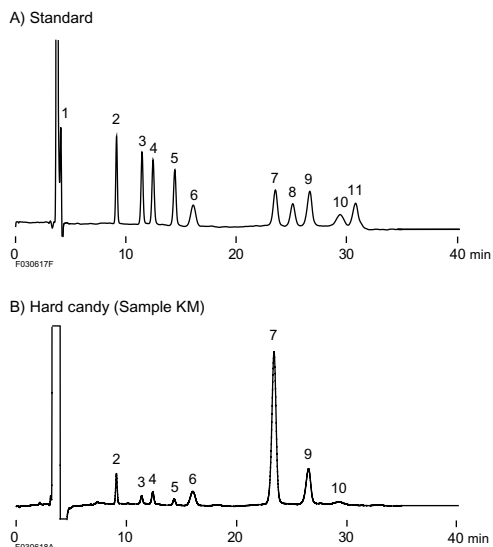


1. Sucralose
2. Erythritol
3. Xylitol
4. Fructose
5. Sorbitol
6. Glucose
7. Sucrose
8. Palatinose
9. Maltitol
10. Maltose
11. Lactitol

(F030613C)

Column : YMC-Pack Polyamine II
 250 × 4.6 mm I.D.
 Eluent : acetonitrile/water (75/25)
 Flow rate : 1.0 mL/min
 Temperature : 25
 Detection : RI, 32 × 10⁸ RIU/FS
 Injection : 5 μ L (5.0 mg/mL)

市販キャンディー中の糖類 Sugars in hard candy

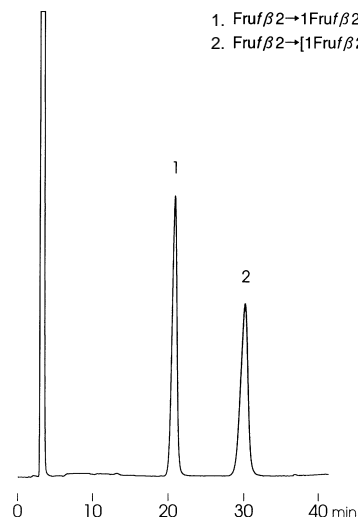


1. Sucralose
2. Erythritol
3. Xylitol
4. Fructose
5. Sorbitol
6. Glucose
7. Sucrose
8. Palatinose
9. Maltitol
10. Maltose
11. Lactitol

(F030618A)

Column : YMC-Pack Polyamine II
 250 × 4.6 mm I.D.
 Eluent : acetonitrile/water (75/25)
 Flow rate : 1.0 mL/min
 Temperature : 25
 Detection : RI, 32 × 10⁸ RIU/FS
 Injection : 5 μ L
 Sample : A) 5 mg/mL
 B) 50 mg/mL (50% ethanol solution of candy)

オリゴ糖 Oligosaccharides

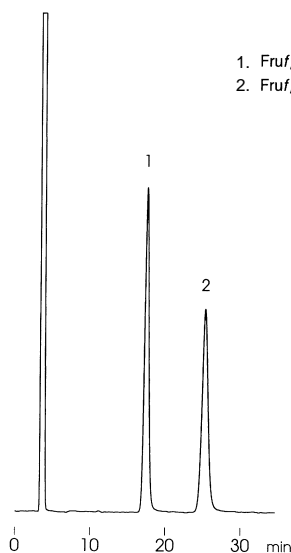


1. Frufβ2→1Frufβ2→1 α Glc (1-Kestose)
2. Frufβ2→[1Frufβ2]₂→1 α Glc (Nystose)

(A970625G)

Column : YMC-Pack Polyamine II
 250 × 4.6 mm I.D.
 Eluent : acetonitrile/water (70/30)
 Flow rate : 1.0 mL/min
 Temperature : ambient (26)
 Detection : RI, 32 × 10⁸ RIU/FS
 Injection : 20 μ L (4.0 mg/mL)

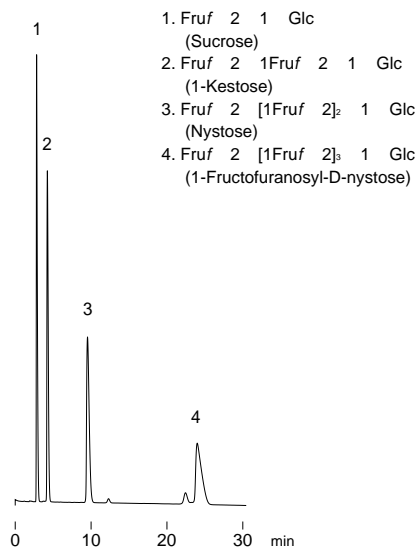
オリゴ糖 Oligosaccharides



1. Frufβ2→1Frufβ2→1 α Glc (1-Kestose)
2. Frufβ2→[1Frufβ2]₂→1 α Glc (Nystose)

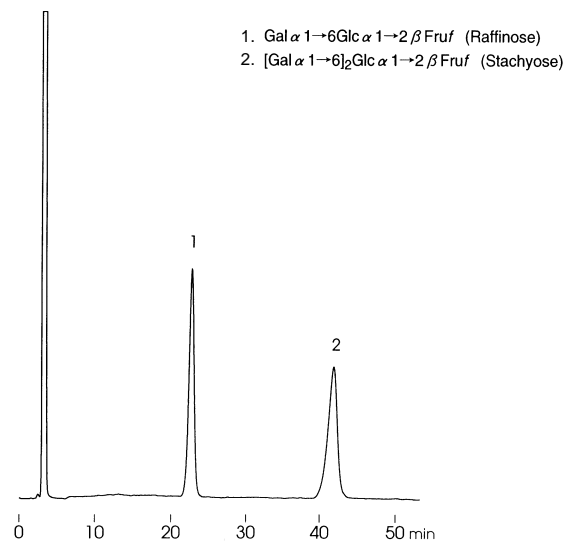
(A970701G)

Column : YMC-Pack NH₂ (5 μ m, 12nm)
 250 × 4.6 mm I.D.
 Eluent : acetonitrile/water (70/30)
 Flow rate : 1.0 mL/min
 Temperature : ambient (27)
 Detection : RI, 32 × 10⁸ RIU/FS
 Injection : 20 μ L (4.0 mg/mL)

フルクトオリゴ糖
Fructooligosaccharides

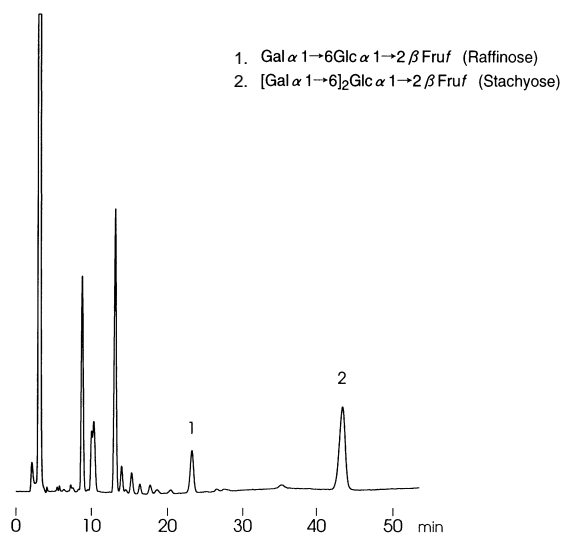
(F000725B)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : 30
Detection : RI, 64 × 10⁶ RIU/FS
Injection : 5 μ L (10 mg/mL)

オリゴ糖
Oligosaccharides

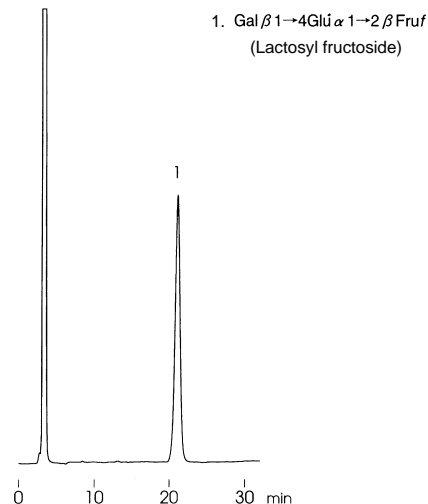
(A970627F)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (70/30)
Flow rate : 1.0 mL/min
Temperature : ambient (26)
Detection : RI, 32 × 10⁶ RIU/FS
Injection : 20 μ L (4.0 mg/mL)

市販清涼飲料水のオリゴ糖
Oligosaccharides of soft drink

(A970630C)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (70/30)
Flow rate : 1.0 mL/min
Temperature : ambient (27)
Detection : RI, 32 × 10⁶ RIU/FS
Injection : 10 μ L
Sample : 10 times dilution with water

オリゴ糖
Oligosaccharides

(A970628H)

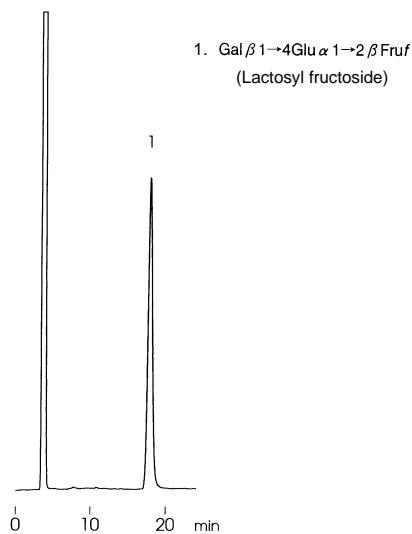
Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (70/30)
Flow rate : 1.0 mL/min
Temperature : ambient (26)
Detection : RI, 32 × 10⁶ RIU/FS
Injection : 20 μ L (4.0 mg/mL)

2 糖類 Carbohydrates

2

糖類

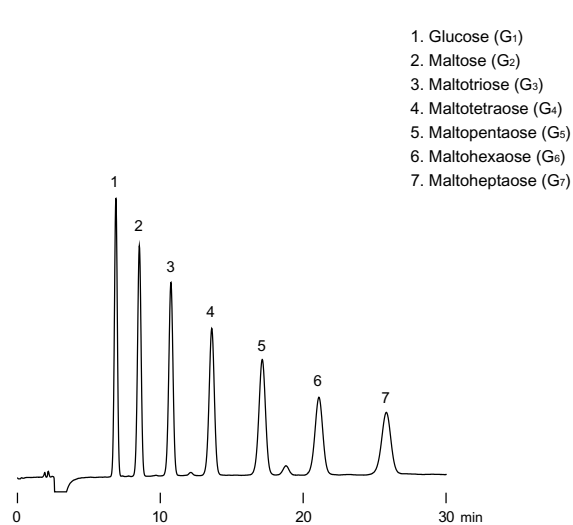
オリゴ糖 Oligosaccharides



(A970703A)

Column : YMC-Pack NH₂ (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : acetonitrile/water (70/30)
Flow rate : 1.0 mL/min
Temperature : ambient (27)
Detection : RI, 32 \times 10⁻⁶ RIU/FS
Injection : 20 μ L (4.0 mg/mL)

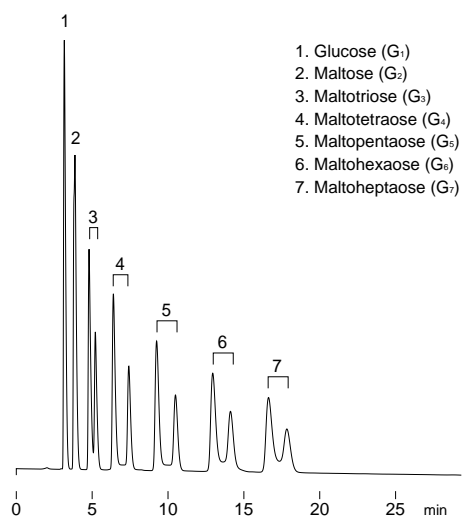
マルトオリゴ糖(G₁ ~ G₇) Maltooligosaccharides(G₁ ~ G₇)



(F030620A)

Column : YMC-Pack Polyamine II
250 \times 4.6 mm I.D.
Eluent : acetonitrile/water (60/40)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : RI, 32 \times 10⁻⁶ RIU/FS
Injection : 10 μ L (2.4 mg/mL)

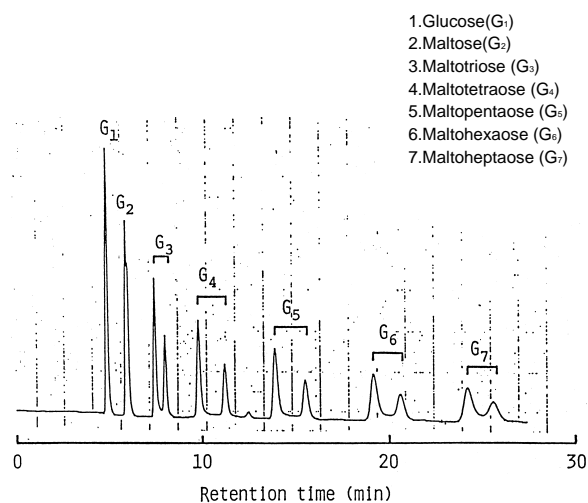
マルトオリゴ糖(G₁ ~ G₇) Maltooligosaccharides(G₁ ~ G₇)



(F000612D)

Column : Hydrosphere C18 (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (26)
Detection : RI, 64 \times 10⁻⁶ RIU/FS
Injection : 10 μ L (5.0 mg/mL)

マルトオリゴ糖(G₁ ~ G₇) Maltooligosaccharides(G₁ ~ G₇)

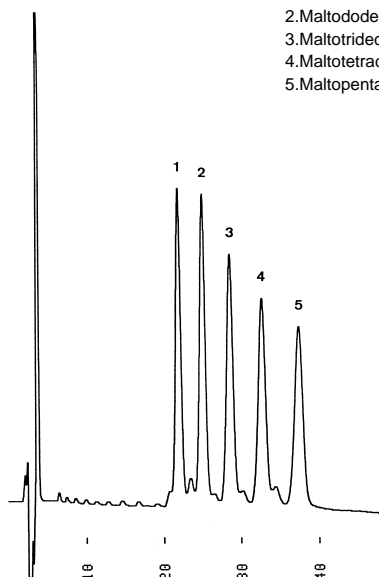


Courtesy of Dr. Kimura and Dr. Chiba, Hokkaido University, Japan (Y910501A)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
250 \times 10.0 mm I.D.
Eluent : water
Flow rate : 3.0 mL/min
Temperature : ambient (25)
Detection : RI

マルトオリゴ糖($G_{11} \sim G_{15}$)Maltooligosaccharides($G_{11} \sim G_{15}$)

1. Maltoundecaose (G_{11})
2. Maltododecaose (G_{12})
3. Maltotridecaose (G_{13})
4. Maltotetraecaose (G_{14})
5. Maltopentadecaose (G_{15})

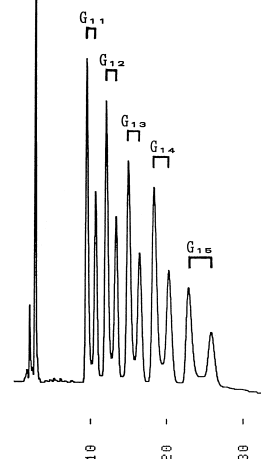


(T910718A)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (55/45)
Flow rate : 1.0 mL/min
Temperature : 26
Detection : RI, 32×10^6 RIU/FS
Injection : 200 μ L (0.71 ~ 0.95 mg/mL)
Sample : Manufactured by Nakano Vinegar Co., Ltd.,
Nakano Central Research Institute

マルトオリゴ糖($G_{11} \sim G_{15}$)Maltooligosaccharides($G_{11} \sim G_{15}$)

1. Maltoundecaose (G_{11})
2. Maltododecaose (G_{12})
3. Maltotridecaose (G_{13})
4. Maltotetraecaose (G_{14})
5. Maltopentadecaose (G_{15})

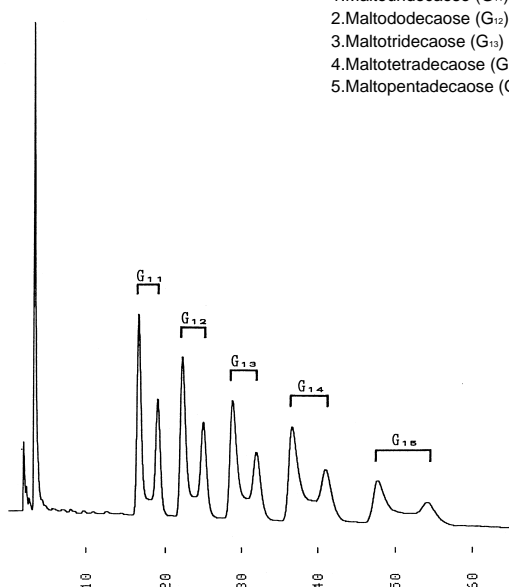


(M910604K)

Column : YMC-Pack ODS-A (5 μ m, 30nm)
150 × 4.6 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : 20
Detection : RI, 8×10^6 RIU/FS
Injection : 25 μ L (1 mg/mL)
Sample : Manufactured by Nakano Vinegar Co., Ltd.,
Nakano Central Research Institute

マルトオリゴ糖($G_{11} \sim G_{15}$)Maltooligosaccharides($G_{11} \sim G_{15}$)

1. Maltoundecaose (G_{11})
2. Maltododecaose (G_{12})
3. Maltotridecaose (G_{13})
4. Maltotetraecaose (G_{14})
5. Maltopentadecaose (G_{15})

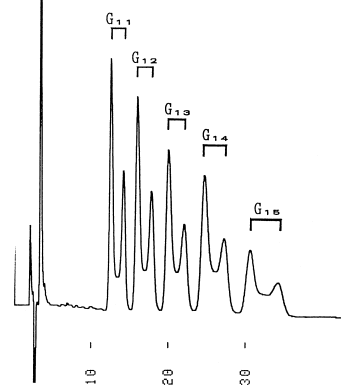


(M910604L)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : 20
Detection : RI, 8×10^6 RIU/FS
Injection : 25 μ L (1 mg/mL)
Sample : Manufactured by Nakano Vinegar Co., Ltd.,
Nakano Central Research Institute

マルトオリゴ糖($G_{11} \sim G_{15}$)Maltooligosaccharides($G_{11} \sim G_{15}$)

1. Maltoundecaose (G_{11})
2. Maltododecaose (G_{12})
3. Maltotridecaose (G_{13})
4. Maltotetraecaose (G_{14})
5. Maltopentadecaose (G_{15})

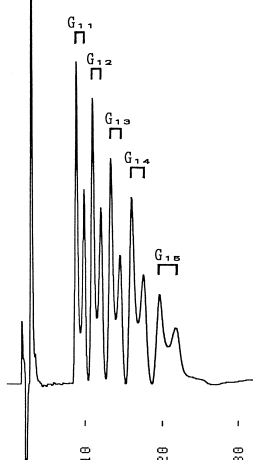


(M910604M)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/water (5/995)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : RI, 8×10^6 RIU/FS
Injection : 25 μ L (1 mg/mL)
Sample : Manufactured by Nakano Vinegar Co., Ltd.,
Nakano Central Research Institute

マルトオリゴ糖(G₁₁ ~ G₁₅)
Maltooligosaccharides(G₁₁ ~ G₁₅)

1. Maltoundecaose (G₁₁)
2. Maltododecaose (G₁₂)
3. Maltotridecaose (G₁₃)
4. Maltotetraecaose (G₁₄)
5. Maltopentadecaose (G₁₅)

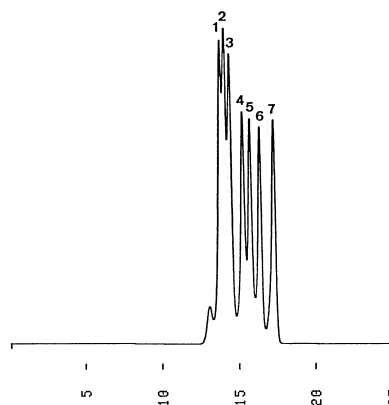


(M910604N)

Column : YMC-Pack ODS-A (5 μm, 12nm)
 150 × 4.6 mm I.D.
 Eluent : methanol/water (5/995)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : RI, 8 × 10⁶ RIU/FS
 Injection : 25 μL (1 mg/mL)
 Sample : Manufactured by Nakano Vinegar Co., Ltd.,
 Nakano Central Research Institute

マルトオリゴ糖(G₁ ~ G₁₅)
Maltooligosaccharides(G₁ ~ G₁₅)

1. Maltopentadecaose (G₁₅)
2. Maltotridecaose (G₁₃)
3. Maltoundecaose (G₁₁)
4. Maltoheptaose (G₇)
5. Maltopentaose (G₅)
6. Maltotriose (G₃)
7. Glucose (G₁)

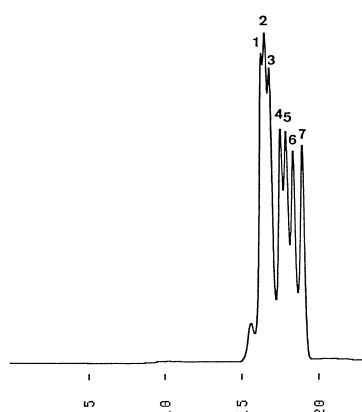


(G911216E)

Column : YMC-Pack Diol-60
 500 × 8.0 mm I.D.
 Eluent : water
 Flow rate : 1.0 mL/min
 Temperature : ambient (24)
 Detection : RI, 64 × 10⁶ RIU/FS
 Injection : 60 μL (0.60 ~ 0.75 mg/mL)

マルトオリゴ糖(G₁ ~ G₁₅)
Maltooligosaccharides(G₁ ~ G₁₅)

1. Maltopentadecaose (G₁₅)
2. Maltotridecaose (G₁₃)
3. Maltoundecaose (G₁₁)
4. Maltoheptaose (G₇)
5. Maltopentaose (G₅)
6. Maltotriose (G₃)
7. Glucose (G₁)

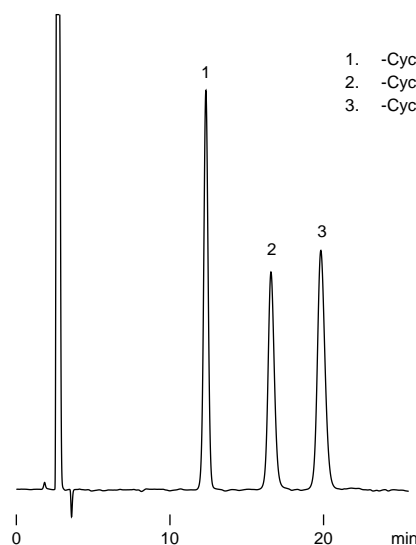


(G911216F)

Column : YMC-Pack Diol-120
 500 × 8.0 mm I.D.
 Eluent : water
 Flow rate : 1.0 mL/min
 Temperature : ambient (24)
 Detection : RI, 64 × 10⁶ RIU/FS
 Injection : 60 μL (0.60 ~ 0.75 mg/mL)

サイクロデキストリン
Cyclodextrins

1. -Cyclodextrin
2. -Cyclodextrin
3. -Cyclodextrin

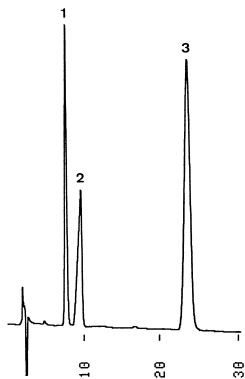


(F030617B)

Column : YMC-Pack Polyamine II
 250 × 4.6 mm I.D.
 Eluent : acetonitrile/water (60/40)
 Flow rate : 1.0 mL/min
 Temperature : 25
 Detection : RI, 32 × 10⁶ RIU/FS
 Injection : 10 μL (0.4 ~ 0.5 mg/mL)

サイクロデキストリン
Cyclodextrins

1. -Cyclodextrin
2. -Cyclodextrin
3. -Cyclodextrin

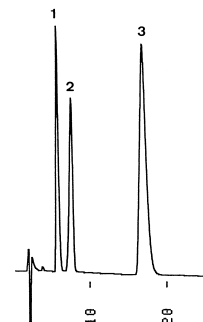


(M910417B)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : methanol/water (7/93)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : RI, 32 \times 10⁶ RIU/FS
Injection : 8 μ L (5 ~ 15 mg/mL)

サイクロデキストリン
Cyclodextrins

1. -Cyclodextrin
2. -Cyclodextrin
3. -Cyclodextrin

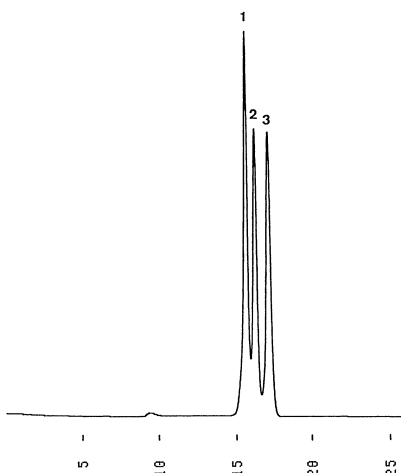


(M910417A)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : methanol/water (7/93)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : RI, 32 \times 10⁶ RIU/FS
Injection : 8 μ L (5 ~ 15 mg/mL)

サイクロデキストリン
Cyclodextrins

1. -Cyclodextrin
2. -Cyclodextrin
3. -Cyclodextrin

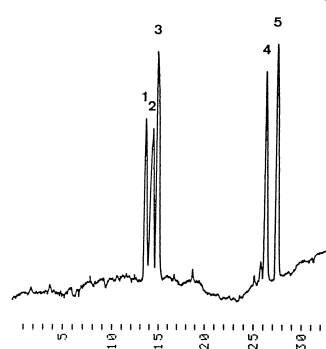


(G911216)

Column : YMC-Pack Diol-60
500 \times 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 32 \times 10⁶ RIU/FS
Injection : 30 μ L (1.67 mg/mL)

サイクロデキストリン
Cyclodextrins

1. -Cyclodextrin
2. -Cyclodextrin
3. -Cyclodextrin
4. O-Dimethyl- -cyclodextrin
5. O-Trimethyl- -cyclodextrin

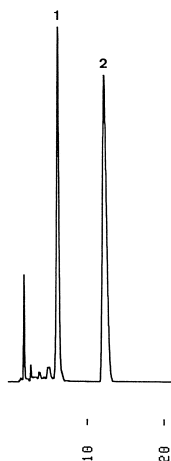


(M910423A)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : A)water
B)methanol
2%B (0-5min), 2-30%B (5-15min, linear),
30-100%B (15-20min, linear), 100%B (20-30min)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : Evaporative Mass Analyzer (ACS Ltd.)
Temp 150
Time Constant 5
PMT 3
Attenuation 16
Pressure 20 psi
Injection : 200 μ L (1.5 ~ 15 mg/mL)

サイクロデキストリン Cyclodextrins

- 1. O-Dimethyl-β-cyclodextrin
- 2. O-Trimethyl-β-cyclodextrin

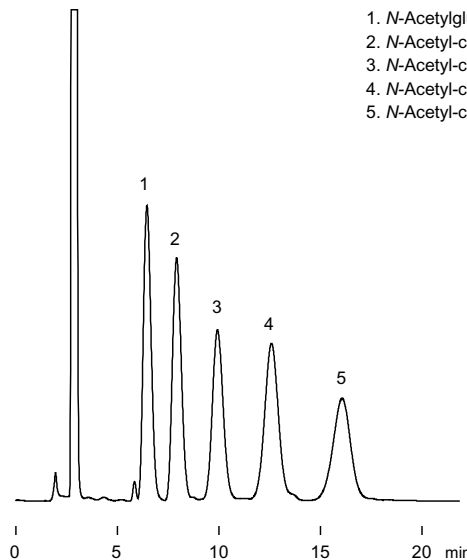


(M910417C)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
 150 × 4.6 mm I.D.
 Eluent : methanol/water (80/20)
 Flow rate : 1.0 mL/min
 Temperature : 30
 Detection : RI, 32 × 10⁶ RIU/FS
 Injection : 5 μ L (15 ~ 20 mg/mL)

キチンオリゴ糖 N-Acetyl-chitooligosaccharides

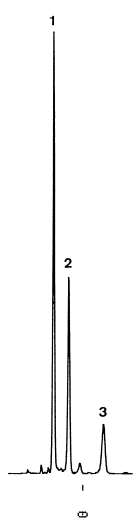
- 1. N-Acetylglucosamine
- 2. N-Acetylchitobiose
- 3. N-Acetylchitotriose
- 4. N-Acetylchitotetraose
- 5. N-Acetylchitopentaose



(F030601A)

Column : YMC-Pack Polyamine II
 250 × 4.6 mm I.D.
 Eluent : acetonitrile/water (65/35)
 Flow rate : 1.0 mL/min
 Temperature : 25
 Detection : RI, 16 × 10⁶ RIU/FS
 Injection : 15 μ L (0.2 mg/mL)

ピリジルアミノ化(PA)糖 Pyridylamino(PA)-Sugar chains



1.PA-Sugar Chain 014
 N-Acetylglucosamine type,
 agalacto tetraantennary

$$\begin{matrix} \text{GN}(\beta 1 \rightarrow 4) & & \text{M}(\alpha 1 \rightarrow 4) \\ \text{GN}(\beta 1 \rightarrow 2) & & \text{M}(\alpha 1 \rightarrow 4) \\ \text{GN}(\beta 1 \rightarrow 4) & & \text{M}(\alpha 1 \rightarrow 3) \\ \text{GN}(\beta 1 \rightarrow 2) & & \text{M}(\alpha 1 \rightarrow 3) \end{matrix} \text{M}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 4) \text{GN-PA}$$

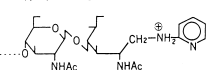
2.PA-Sugar Chain 001
 N-Acetylglucosamine type,
 biantennary

$$\begin{matrix} \text{G}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 2) \text{M}(\alpha 1 \rightarrow 4) \\ \text{G}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 2) \text{M}(\alpha 1 \rightarrow 3) \end{matrix} \text{M}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 4) \text{GN-PA}$$

3.PA-Sugar Chain 002
 N-Acetylglucosamine type,
 triantennary

$$\begin{matrix} \text{G}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 2) - \text{M}(\alpha 1 \rightarrow 4) \\ \text{G}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 4) \\ \text{G}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 2) \end{matrix} \text{M}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 4) \text{GN-PA}$$

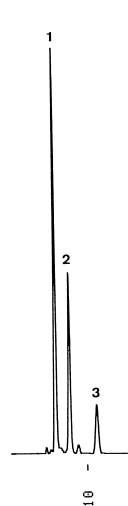
G : galactose
 GN : N-acetylglucosamine
 M : mannose
 F : fucose
 PA : pyridylamino (group)



(G910607C)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
 150 × 4.6 mm I.D.
 Eluent : methanol/20mM NH₄H₂PO₄ (5/95)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : FLS at Ex.320 nm, Em. 400 nm, 8 mV/FS
 Injection : 2 μ L (3.3 pmol/mL)
 Sample : PA-Sugar Chain Series, manufactured by TAKARA SHUZO CO., LTD.

ピリジルアミノ化(PA)糖 Pyridylamino(PA)-Sugar chains



1.PA-Sugar Chain 014
 N-Acetylglucosamine type,
 agalacto tetraantennary

$$\begin{matrix} \text{GN}(\beta 1 \rightarrow 4) & & \text{M}(\alpha 1 \rightarrow 4) \\ \text{GN}(\beta 1 \rightarrow 2) & & \text{M}(\alpha 1 \rightarrow 4) \\ \text{GN}(\beta 1 \rightarrow 4) & & \text{M}(\alpha 1 \rightarrow 3) \\ \text{GN}(\beta 1 \rightarrow 2) & & \text{M}(\alpha 1 \rightarrow 3) \end{matrix} \text{M}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 4) \text{GN-PA}$$

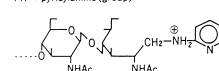
2.PA-Sugar Chain 001
 N-Acetylglucosamine type,
 biantennary

$$\begin{matrix} \text{G}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 2) \text{M}(\alpha 1 \rightarrow 4) \\ \text{G}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 2) \text{M}(\alpha 1 \rightarrow 3) \end{matrix} \text{M}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 4) \text{GN-PA}$$

3.PA-Sugar Chain 002
 N-Acetylglucosamine type,
 triantennary

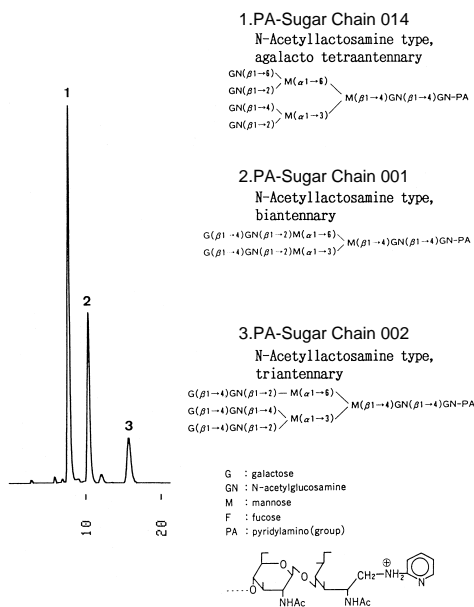
$$\begin{matrix} \text{G}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 2) - \text{M}(\alpha 1 \rightarrow 4) \\ \text{G}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 4) \\ \text{G}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 2) \end{matrix} \text{M}(\beta 1 \rightarrow 4) \text{GN}(\beta 1 \rightarrow 4) \text{GN-PA}$$

G : galactose
 GN : N-acetylglucosamine
 M : mannose
 F : fucose
 PA : pyridylamino (group)



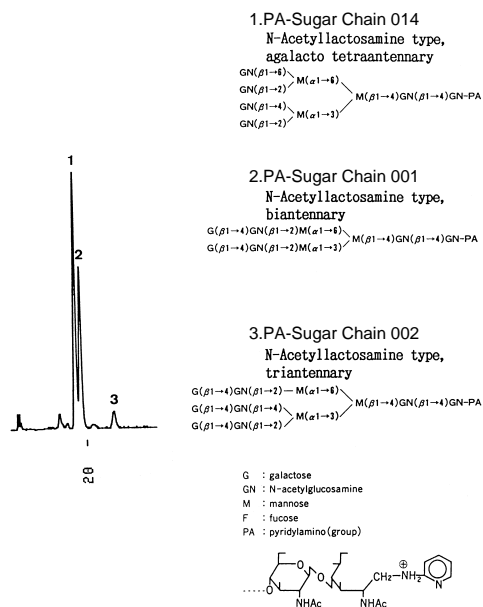
(G910607B)

Column : YMC-Pack ODS-A (5 μ m, 30nm)
 150 × 4.6 mm I.D.
 Eluent : methanol/20mM NH₄H₂PO₄ (5/95)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : FLS at Ex.320 nm, Em. 400 nm, 16 mV/FS
 Injection : 2 μ L (3.3 pmol/mL)
 Sample : PA-Sugar Chain Series, manufactured by TAKARA SHUZO CO., LTD.

ピリジルアミノ化(PA)糖
Pyridylamino(PA)-Sugar chains

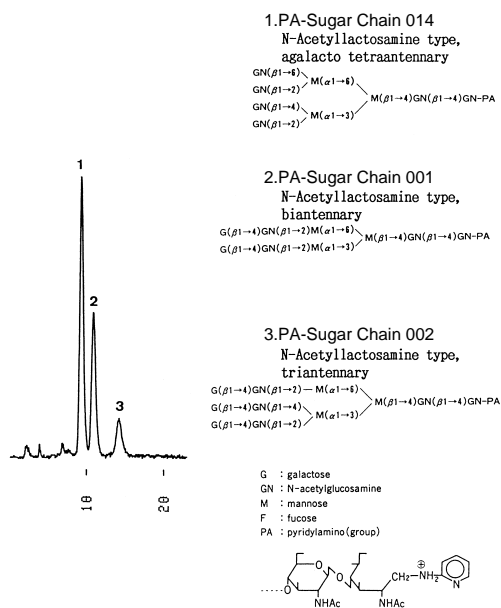
(G910607A)

Column : YMC-Pack ODS-A (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/20mM NH₄H₂PO₄ (5/95)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : FLS at Ex.320 nm, Em. 400 nm, 16 mV/FS
Injection : 2 μL (3.3 pmol/mL)
Sample : PA-Sugar Chain Series, manufactured by TAKARA SHUZO CO., LTD.

ピリジルアミノ化(PA)糖
Pyridylamino(PA)-Sugar chains

(G910620B)

Column : YMC-Pack Polyamine II
150 × 4.6 mm I.D.
Eluent : acetonitrile/20mM NH₄H₂PO₄ (60/40)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : FLS at Ex. 320 nm, Em. 400 nm, 8 mV/FS
Injection : 5 μL (3.3 pmol/mL)
Sample : PA-Sugar Chain Series, manufactured by TAKARA SHUZO CO., LTD.

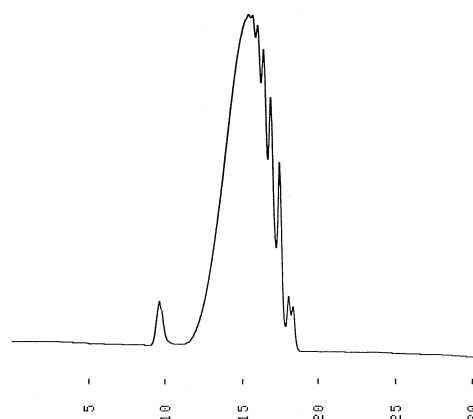
ピリジルアミノ化(PA)糖
Pyridylamino(PA)-Sugar chains

(G910620A)

Column : YMC-Pack Polyamine II
150 × 4.6 mm I.D.
Eluent : methanol/20mM NH₄H₂PO₄ (80/20)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : FLS at Ex.320 nm, Em. 400 nm, 4 mV/FS
Injection : 3 μL (3.3 pmol/mL)
Sample : PA-Sugar Chain Series, manufactured by TAKARA SHUZO CO., LTD.

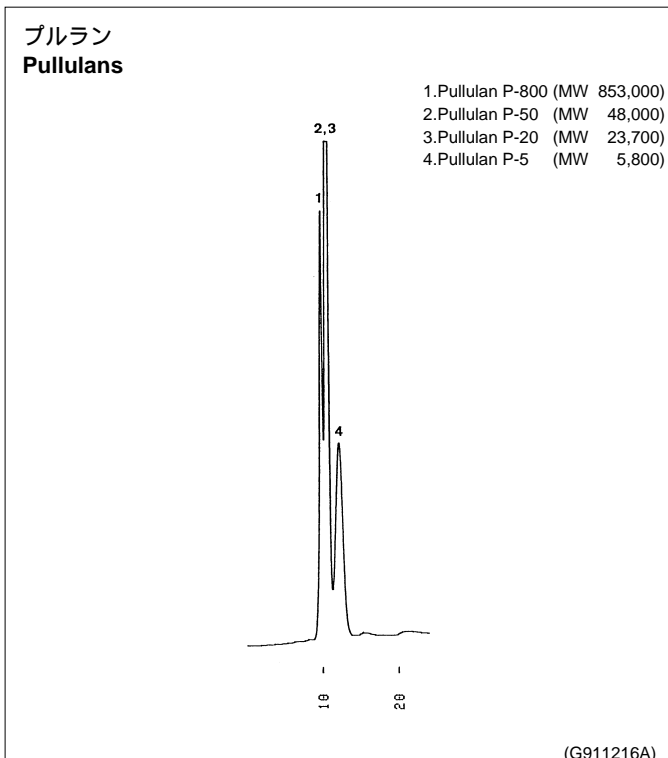
ポリデキストロース
Polydextrose

1.Polydextrose II

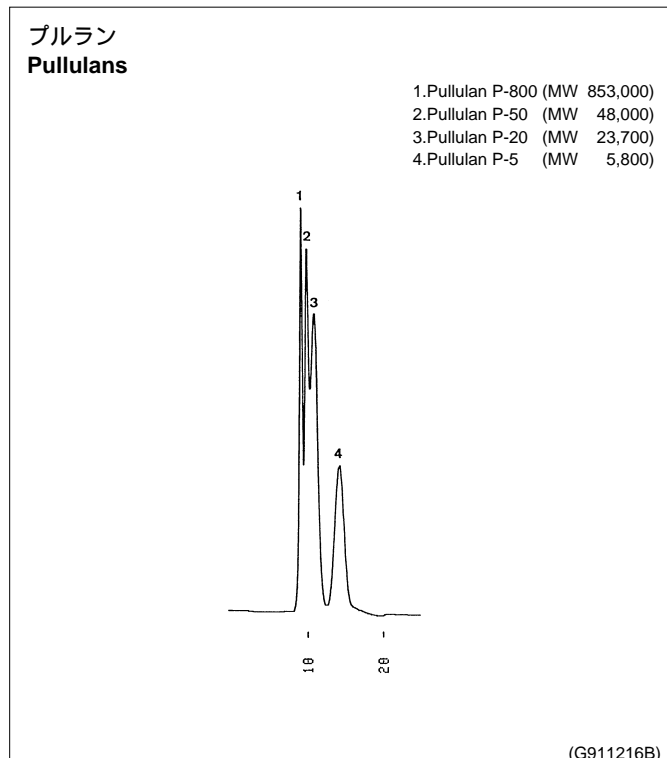


(G911226A)

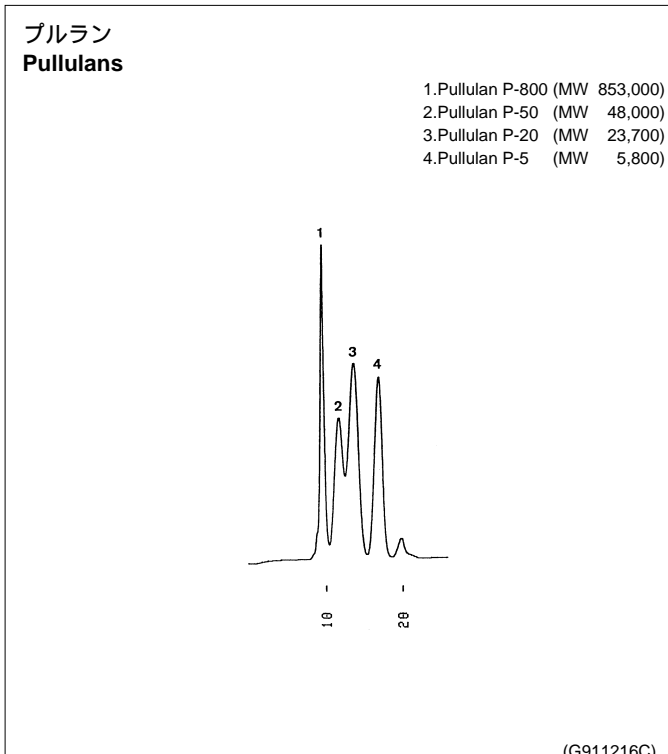
Column : YMC-Pack Diol-60
500 × 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (25 °C)
Detection : RI, 64 × 10⁶ RIU/FS
Injection : 40 μL (25 mg/mL)



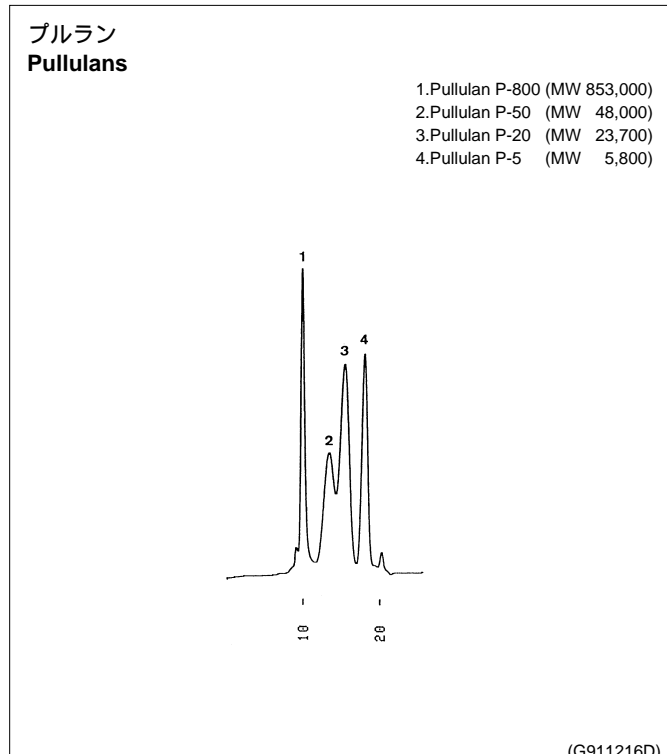
Column : YMC-Pack Diol-60
500 x 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 16 x 10⁻⁶ RIU/FS
Injection : 180 μ L (0.25 mg/mL)
Sample : Shodex STANDARD P-82, manufactured by SHOWA DENKO K.K.



Column : YMC-Pack Diol-120
500 x 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 16 x 10⁻⁶ RIU/FS
Injection : 180 μ L (0.25 mg/mL)
Sample : Shodex STANDARD P-82, manufactured by SHOWA DENKO K.K.



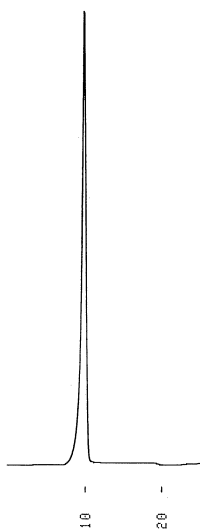
Column : YMC-Pack Diol-200
500 x 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 16 x 10⁻⁶ RIU/FS
Injection : 180 μ L (0.25 mg/mL)
Sample : Shodex STANDARD P-82, manufactured by SHOWA DENKO K.K.



Column : YMC-Pack Diol-300
500 x 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 16 x 10⁻⁶ RIU/FS
Injection : 180 μ L (0.25 mg/mL)
Sample : Shodex STANDARD P-82, manufactured by SHOWA DENKO K.K.

コンドロイチン
Chondroitin

1.Chondroitin, Na salt

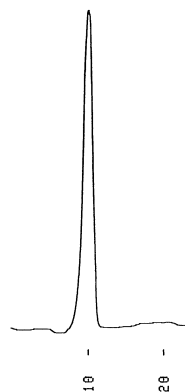


(G920107A)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 32 × 10⁶ RIU/FS
Injection : 20 μ L (5.0 mg/mL)

コンドロイチン硫酸 A
Chondroitin sulfate A

1.Chondroitin sulfate A, Na salt

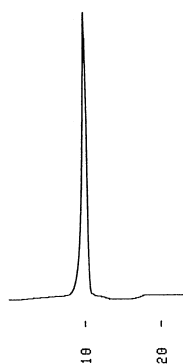


(G920107C)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 16 × 10⁶ RIU/FS
Injection : 20 μ L (5.0 mg/mL)

コンドロイチン硫酸 B
Chondroitin sulfate B

1.Chondroitin sulfate B, Na salt

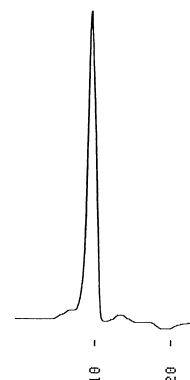


(G920107E)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 32 × 10⁶ RIU/FS
Injection : 20 μ L (5.0 mg/mL)

コンドロイチン硫酸 C
Chondroitin sulfate C

1.Chondroitin sulfate C, Na salt



(G920107D)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 16 × 10⁶ RIU/FS
Injection : 20 μ L (5.0 mg/mL)

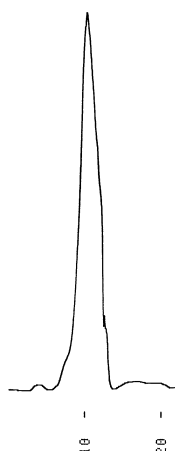
2 糖類 Carbohydrates

2

糖
類

ヒアルロン酸 Hyaluronic acid

1.Hyaluronic acid, Na salt

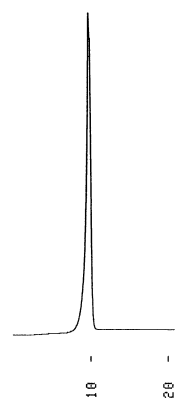


(G920107B)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 8×10^6 RIU/FS
Injection : 20 μ L (5.0 mg/mL)

ヘパリン Heparin

1.Heparin, Na salt

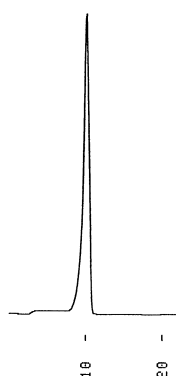


(G920107I)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 32×10^6 RIU/FS
Injection : 20 μ L (5.0 mg/mL)

ヘパラン硫酸 Heparan sulfate

1.Heparan sulfate, Na salt

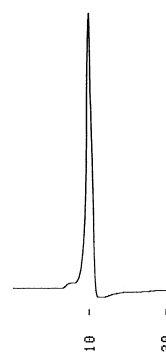


(G920107F)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 32×10^6 RIU/FS
Injection : 20 μ L (5.0 mg/mL)

ケラタン硫酸 Keratan sulfate

1.Keratan sulfate, Na salt

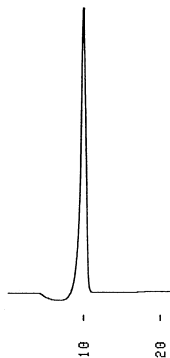


(G920107G)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 32×10^6 RIU/FS
Injection : 20 μ L (5.0 mg/mL)

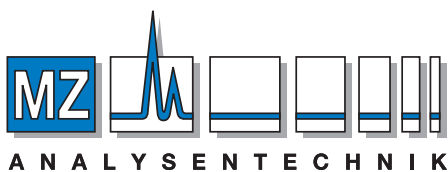
ケラタンポリ硫酸
Keratan polysulfate

1.Keratan polysulfate, Na salt



(G920107H)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : water
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : RI, 32 × 10⁻⁶ RIU/FS
Injection : 20 μ L (5.0 mg/mL)



AUTHORIZED DISTRIBUTOR

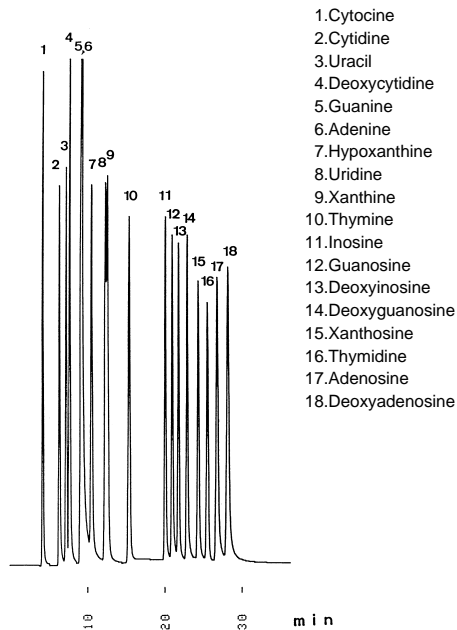
MZ-Analysentechnik GmbH, Barcelona-Allee 17 • D-55129 Mainz

Tel +49 6131 880 96-0, Fax +49 6131 880 96-20

e-mail: info@mz-at.de, www.mz-at.de

核酸塩基・ヌクレオシド

Nucleosides and bases

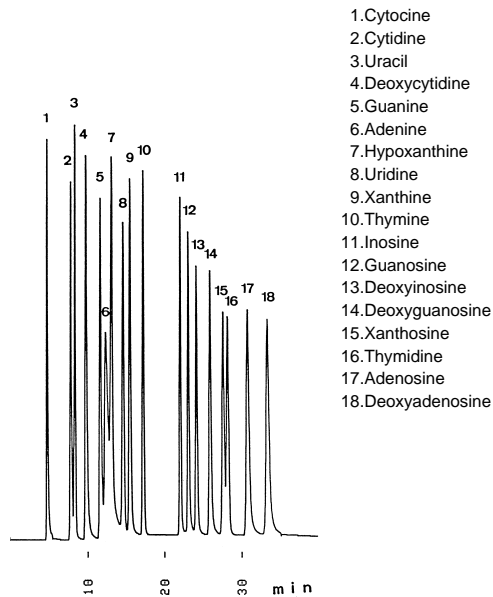


(T910404C)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : A)20mM CH₃COOH - CH₃COONH₄ (pH 3.5)
B)20mM CH₃COOH - CH₃COONH₄ (pH 3.5)/methanol (90/10)
30%B (0-5min), 30-100%B (5-13min,linear), 100%B (13-40min)
Flow rate : 0.7 mL/min
Temperature : 30
Detection : UV at 260 nm, 0.08 AUFS
Injection : 12 μ L (0.001 ~ 0.05 mg/mL)

核酸塩基・ヌクレオシド

Nucleosides and bases

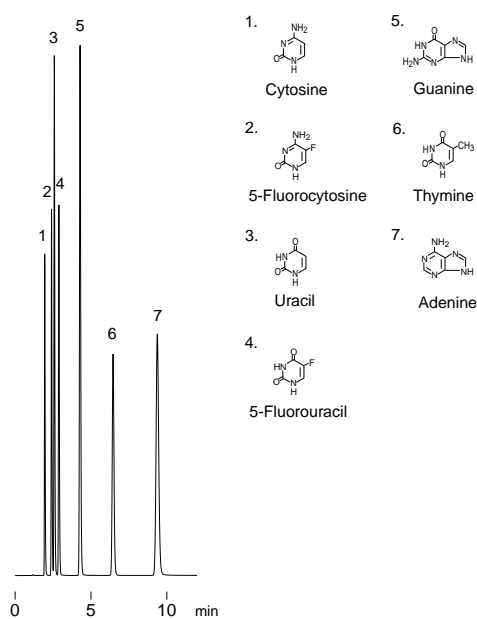


(T910404A)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : A)20mM CH₃COOH - CH₃COONH₄ (pH 3.5)
B)20mM CH₃COOH - CH₃COONH₄ (pH 3.5)/methanol (90/10)
30%B (0-5min), 30-100%B (5-13min,linear), 100%B (13-40min)
Flow rate : 0.7 mL/min
Temperature : 30
Detection : UV at 260 nm, 0.08 AUFS
Injection : 12 μ L (0.001 ~ 0.05 mg/mL)

核酸塩基

Nucleic acid bases

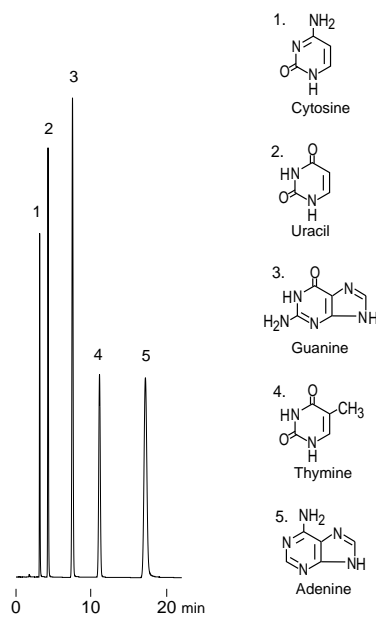


(J010209E)

Column : Hydrosphere C18 (3 μ m, 12nm)
100 \times 4.6 mm I.D.
Eluent : 20mM KH₂PO₄ - K₂HPO₄ (pH 6.9)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.128 AUFS
Injection : 10 μ L (0.01 ~ 0.02 mg/mL)

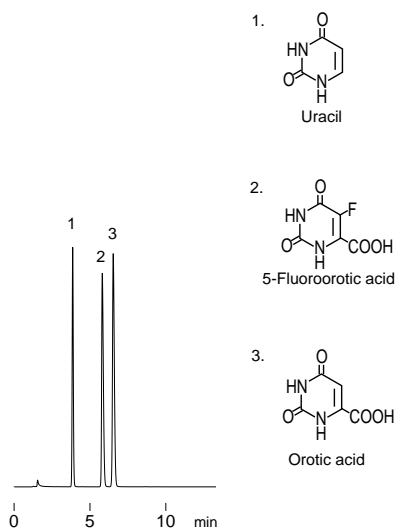
核酸塩基

Nucleic acid bases



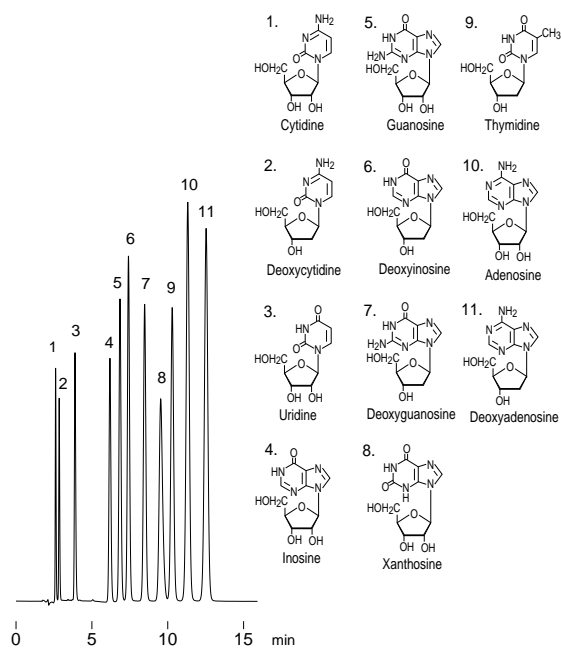
(S991029A)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : 20mM KH₂PO₄ - K₂HPO₄ (pH 6.9)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.064 AUFS
Injection : 8 μ L (0.01 ~ 0.02 mg/mL)

オロチン酸
Orotic acid

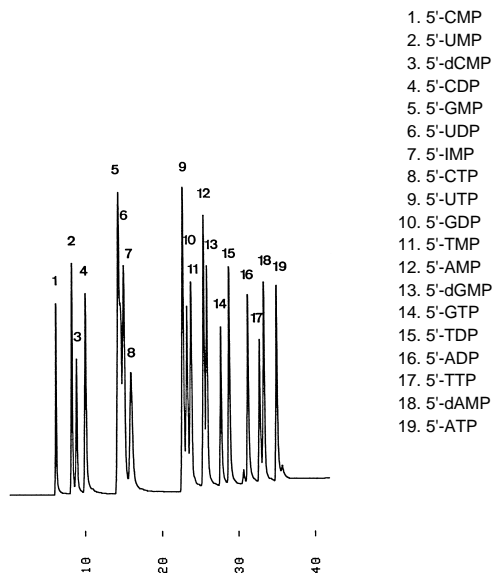
(A000711A)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : 20mM H₃PO₄
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.256 AUFS
Injection : 10 μ L (0.015 ~ 0.1 mg/mL)

ヌクレオシド
Nucleosides

(A000802B)

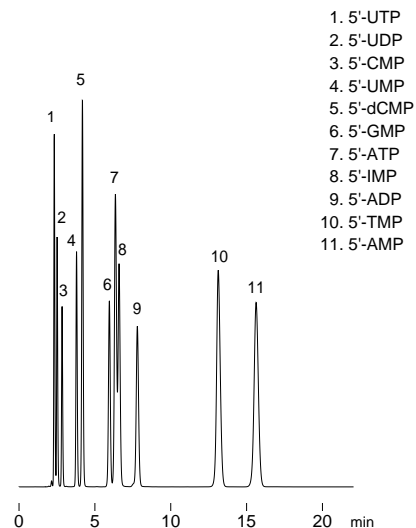
Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : 20mM NH₄H₂PO₄ - H₃PO₄ (pH 3.5) / methanol (92/8)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 260 nm, 0.064 AUFS
Injection : 15 μ L (5 ~ 15 μ g/mL)

ヌクレオチド
Nucleotides

(T910424A)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : A) 0.2M TEAA* (pH6.6)
B) 0.2M TEAA (pH6.6)/acetonitrile (95/5)
4%B (0-10min), 4-100%B (10-35min, linear), 100%B (35-50min)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 260 nm, 0.16 AUFS
Injection : 14 μ L (0.029 ~ 0.16 mg/mL)

* TEAA:triethylamine-acetic acid

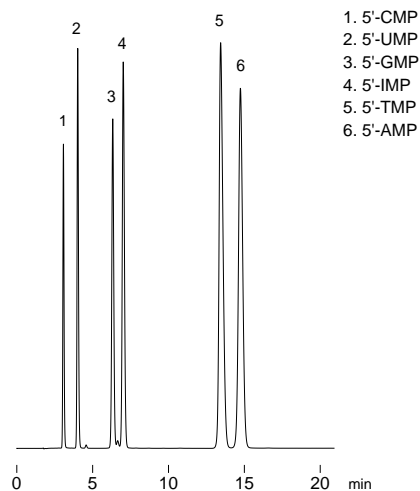
ヌクレオチド
Nucleotides

(A000922A)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : 100mM KH₂PO₄ - K₂HPO₄ (pH 5.5)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 260 nm, 0.256 AUFS
Injection : 10 μ L (0.05 ~ 0.15 mg/mL)

ヌクレオチド

Nucleotides



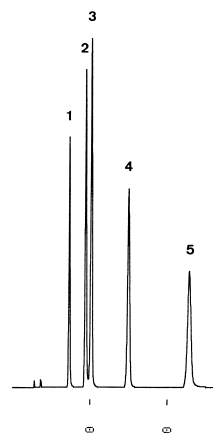
(A000912B)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : 100mM KH₂PO₄
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 260 nm, 0.256 AUFS
Injection : 10 μ L (0.1 ~ 0.3 mg/mL)

ヌクレオチド

Nucleotides

1. 5'-CMP
2. 5'-AMP
3. 5'-UMP
4. 5'-IMP
5. 5'-GMP



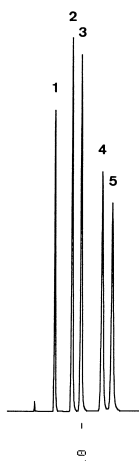
(T920525C)

Column : YMC-Pack Polyamine II
250 \times 4.6 mm I.D.
Eluent : 50mM KH₂PO₄ - H₃PO₄ (pH 3.5)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 260 nm, 0.16 AUFS
Injection : 10 μ L (0.05 ~ 0.1 mg/mL)

ヌクレオチド

Nucleotides

1. 5'-CMP
2. 5'-AMP
3. 5'-UMP
4. 5'-IMP
5. 5'-GMP



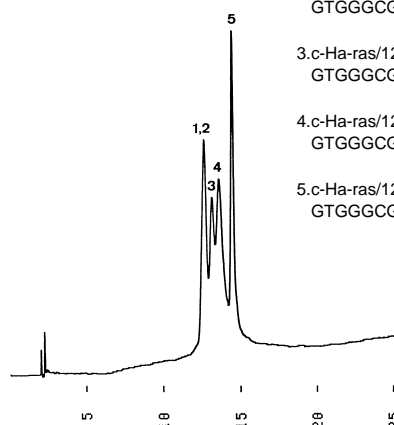
(T920525D)

Column : YMC-Pack NH₂ (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : 50mM KH₂PO₄ - H₃PO₄ (pH 3.5)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 260 nm, 0.16 AUFS
Injection : 10 μ L (0.05 ~ 0.1 mg/mL)

オリゴヌクレオチド

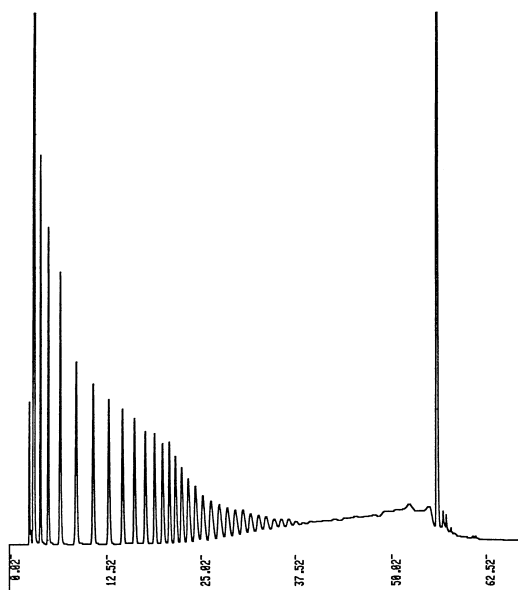
Oligonucleotides

- 1.c-Ha-ras/12 (20mer)
GTGGGCGCC-AGC-GGTGTGGG
Ser
- 2.c-Ha-ras/12 (20mer)
GTGGGCGCC-GCC-GGTGTGGG
Ala
- 3.c-Ha-ras/12 (20mer)
GTGGGCGCC-GAC-GGTGTGGG
Asp
- 4.c-Ha-ras/12 (20mer)
GTGGGCGCC-GTC-GGTGTGGG
Val
- 5.c-Ha-ras/12 (20mer)
GTGGGCGCC-CGC-GGTGTGGG
Arg



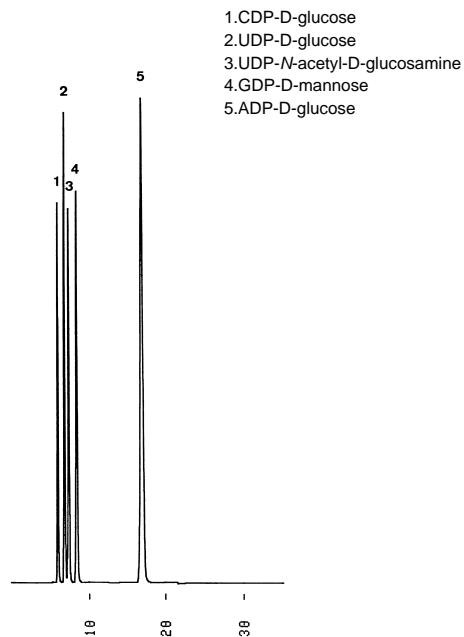
(G910620C)

Column : YMC-Pack ODS-A (5 μ m, 30nm)
150 \times 4.6 mm I.D.
Eluent : A)100mM triethylamine - acetic acid (pH 6.5)/acetonitrile (94/6)
B)100mM triethylamine - acetic acid (pH 6.5)/acetonitrile (85/15)
0-100%B (0-25min,linear)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 260 nm, 0.01 AUFS
Injection : 15 μ L (2.0 pmol/ μ L)
Sample : TAKARA ras Gene Probe set, manufactured by TAKARA SHUZO CO., LTD.

オリゴヌクレオチド , poly(A)
Poly(A)

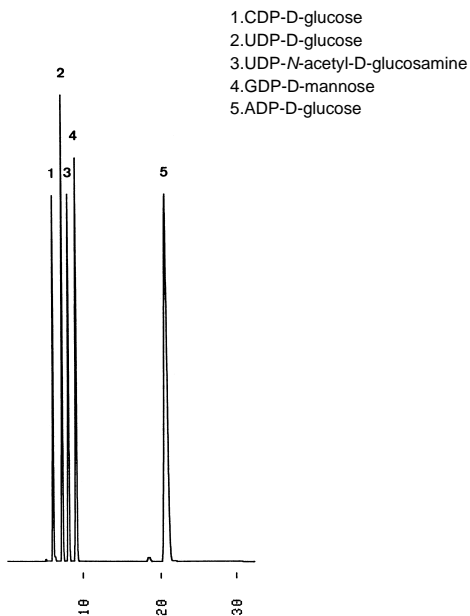
Courtesy of Dr.Y.Baba, Kobe Women's College of Pharmacy (Y920608A)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 \times 6.0 mm I.D.
Eluent : A)0.1M phosphate buffer (pH 7)
B)0.1M phosphate buffer (pH 7) / acetonitrile (75/25)
20-27%B (0-15min), 27-35%B (15-90min)
Flow rate : 1.0 mL/min
Temperature : ambient
Detection : UV at 260 nm
Injection : 10 μ L
Sample : Poly(A)

糖ヌクレオチド
Sugar nucleotides

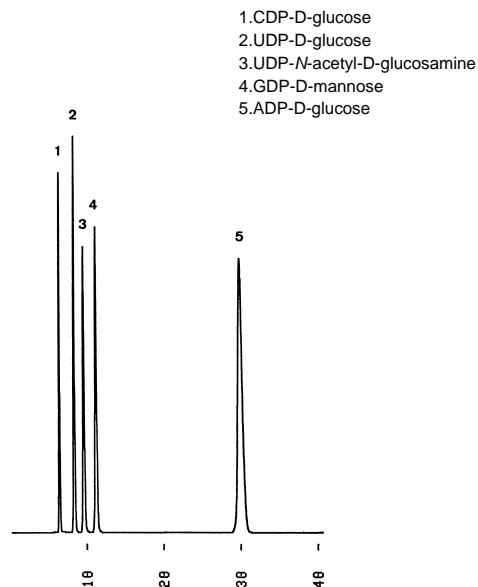
(T911206D)

Column : YMC-Pack Ph (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : 100mM TEAA¹⁾ (pH 6.0)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 5 μ L (0.27 ~ 0.71 mg/mL)
1) TEAA: triethylamine-acetic acid

糖ヌクレオチド
Sugar nucleotides

(T911206B)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : 20mM TEAA¹⁾ (pH 5.7)/acetonitrile (99/1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 5 μ L (0.27 ~ 0.71 mg/mL)
1) TEAA: triethylamine-acetic acid

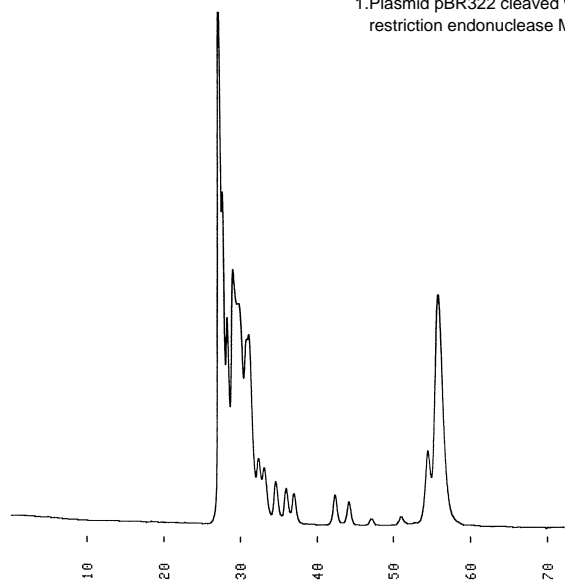
糖ヌクレオチド
Sugar nucleotides

(T911206E)

Column : YMC-Pack ODS-A (5 μ m, 30nm)
250 \times 4.6 mm I.D.
Eluent : 100mM TEAA¹⁾ (pH 6.0)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 5 μ L (0.27 ~ 0.71 mg/mL)
1) TEAA: triethylamine-acetic acid

プラスミド pBR322 の制限酵素 Msp I 分解物
Plasmid pBR322 restriction fragments

1. Plasmid pBR322 cleaved with
restriction endonuclease Msp

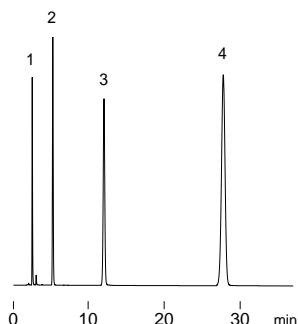


(G920109B)

Column : YMC-Pack Diol-300 + Diol-200
500 x 8.0 mm I.D. x 2
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl
Flow rate : 0.7 mL/min
Temperature : ambient (26)
Detection : UV at 260 nm, 0.01 AUFS
Injection : 3 μ L (0.49 mg/mL)
Sample : Plasmid pBR322 cleaved with restriction endonuclease Msp

アミノ酸 Amino acids

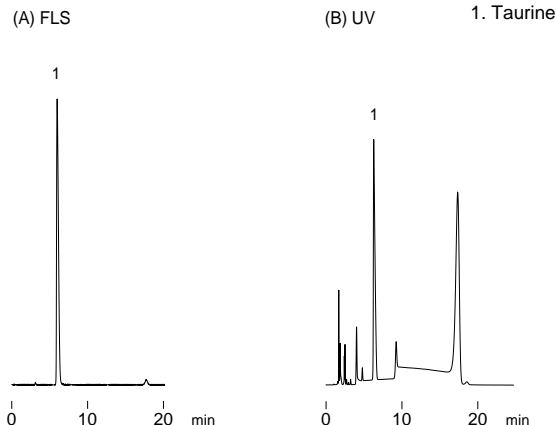
1. L-Valine
2. L-Tyrosine
3. L-Phenylalanine
4. L-Tryptophan



(A000419B)

Column : Hydrosphere C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM KH₂PO₄
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.16 AUFS
Injection : 5 μL (0.05 ~ 1.6 mg/mL)

市販ドリンク剤中のタウリン Taurine in nutritious drink

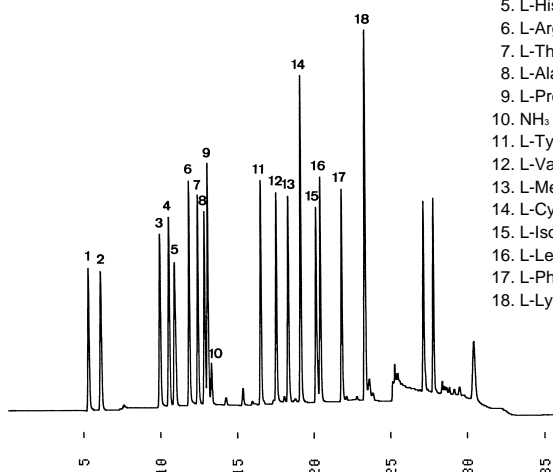


(F001115C)

Column : Hydrosphere C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 10mM KH₂PO₄-K₂HPO₄(pH6.8)/acetonitrile (85/15)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : (A)FLS at Ex 345 nm, Em 450 nm
(B)UV at 254 nm, 0.32 AUFS
Injection : 15 μL
Sample : OPA derivative

PTC-アミノ酸 PTC-amino acids

1. L-Aspartic acid
2. L-Glutamic acid
3. L-Serine
4. Glycine
5. L-Histidine
6. L-Arginine
7. L-Threonine
8. L-Alanine
9. L-Proline
10. NH₃
11. L-Tyrosine
12. L-Valine
13. L-Methionine
14. L-Cystine
15. L-Isoleucine
16. L-Leucine
17. L-Phenylalanine
18. L-Lysine

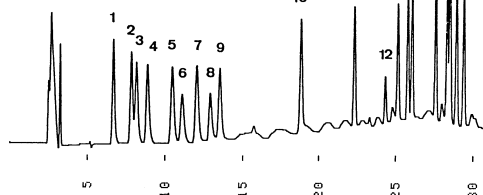


(G910523A)

Column : YMC-Pack ODS-AM (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : A) 60mM CH₃COONa - CH₃COOH (pH 6.6)/acetonitrile (94/6)
B) 60mM CH₃COONa - CH₃COOH (pH 6.6)/acetonitrile (40/60)
0-55%B (0-20min, linear), 100%B (20-25min), 0%B (25-35min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 250 nm, 0.08 AUFS
Injection : 5 μL (62.5 pmol/μL)
Sample : PTC derivatives

PTH-アミノ酸 PTH-amino acids

1. Asp
2. His
3. Arg
4. Asn
5. Glu
6. Ser
7. Gln
8. Thr
9. Gly
10. Ala
11. Tyr
12. -Thr
13. Pro
14. Met
15. Val
16. Trp
17. Phe
18. Lys
19. Ile
20. Leu



(K940331A)

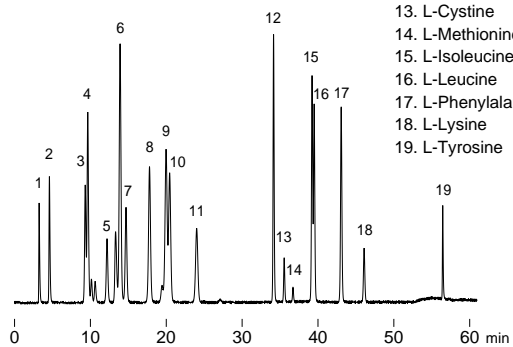
Column : J'sphere ODS-H80 (4 μm, 8nm)
250 × 2.0 mm I.D.
Eluent : A)acetonitrile/THF/300mM TEAA* (pH 5.1) (10/4/90)
B)acetonitrile/THF/300mM TEAA (pH 5.1) (75/4/25)
0-30%B (0-15min), 30-80%B (15-30min)
Flow rate : 0.2 mL/min
Temperature : 50
Detection : UV at 270 nm, 0.08 AUFS
Injection : 30 μL (25pmol/10 μL)

*TEAA: triethylamine-acetic acid

NBD-アミノ酸

NBD-amino acids

1. L-Aspartic acid
2. L-Glutamic acid
3. L-Asparagine
4. L-Serine
5. L-Histidine
6. Glycine
7. L-Arginine
8. L-Threonine
9. Taurine
10. L-Alanine
11. L-Proline
12. L-Valine
13. L-Cystine
14. L-Methionine
15. L-Isoleucine
16. L-Leucine
17. L-Phenylalanine
18. L-Lysine
19. L-Tyrosine



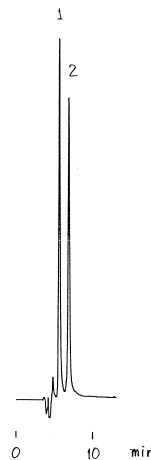
(F001129E)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : A)20mM KH₂PO₄-K₂HPO₄(pH6.5)
B)20mM KH₂PO₄-K₂HPO₄(pH6.5)/acetonitrile (50/50)
15-25%B(0-25min), 25-40%B(25-30min),
40-65%B(30-50min),65-100%B(50-55min),
100%B(55-60min)
Flow rate : 1.0 mL/min(0-25min), 1.5 mL/min(25-60min)
Temperature : 30
Detection : FLS at Ex 470 nm, Em 530 nm
Injection : 20 μ L
Sample : NBD derivatives

酸化型および還元型グルタチオン

Glutathione, oxidized and reduced form

- 1.Glutathione (GSH)
- 2.Glutathione disulfide (GSSG)

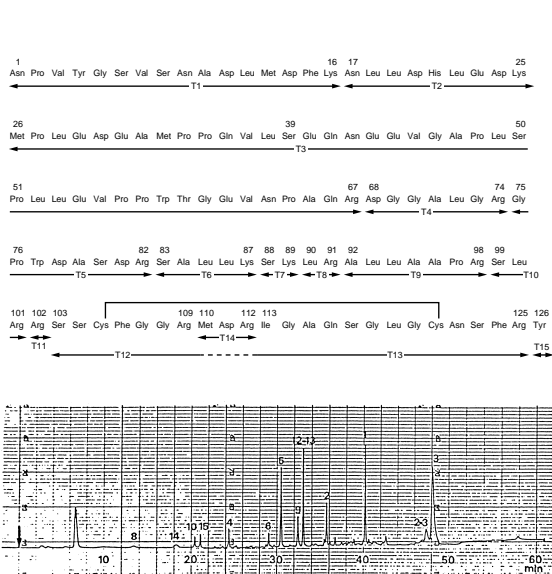


(H900710D)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : 0.1M sodium perchlorate in A
A)acetonitrile/water/TFA (5/95/0.05)
Flow rate : 0.5 mL/min
Temperature : 30
Detection : UV at 220 nm,0.64 AUFS
Injection : 10 μ L

ペプチドマップ

Peptide mapping

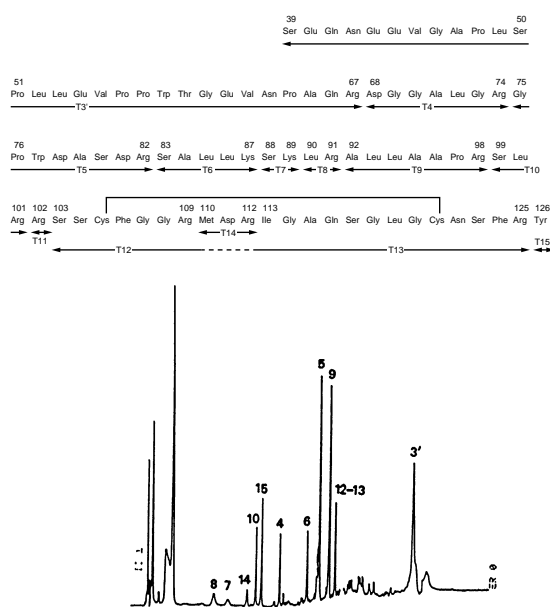


Courtesy of Dr.Nokihara, GBF-Gesellschaft für Biotechnologische Forschung (Y890712B)

Column : YMC-Pack ODS/R (5 μ m, 12nm)
250 × 4.6 mm I.D.
Eluent : A)0.01N HCl
B)acetonitrile
0%B (0min),0%B (10min),50%B (60min,linear)
Flow rate : 1.0 mL/min
Detection : UV 210 nm
Sample : Tryptic digests of synthetic pCDD 126

ペプチドマップ

Peptide mapping

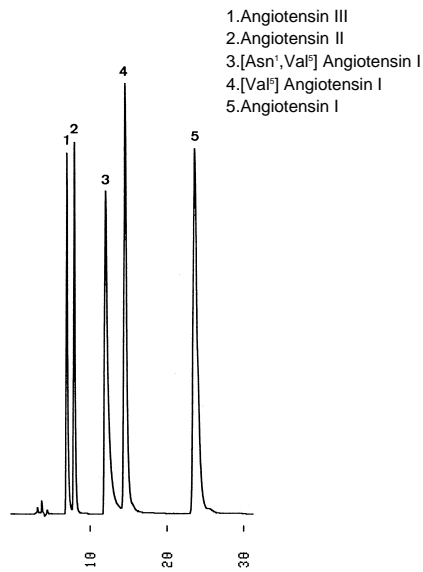


Courtesy of Dr.Nokihara, GBF-Gesellschaft für Biotechnologische Forschung (Y890712A)

Column : YMC-Pack ODS/R (5 μ m, 12nm)
250 × 4.6 mm I.D.
Eluent : A)0.01N HCl
B)acetonitrile
0%B (0min),0%B (10min),60%B (60min,linear)
Flow rate : 1.0 mL/min
Detection : UV 210 nm
Sample : Tryptic digests of synthetic pCDD 88

アンジオテンシン

Angiotensins

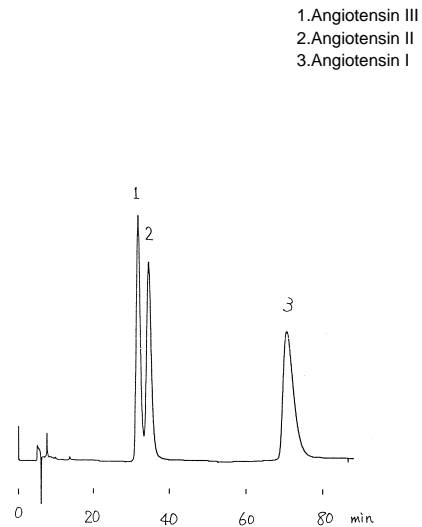


(G910520A)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
 150 \times 4.6 mm I.D.
 Eluent : acetonitrile/20mM KH₂PO₄ (20/80)
 Flow rate : 0.5 mL/min
 Temperature : 30
 Detection : UV at 220 nm, 0.08 AUFS
 Injection : 8 μ L (0.05 ~ 0.15 mg/mL)

アンジオテンシン

Angiotensins

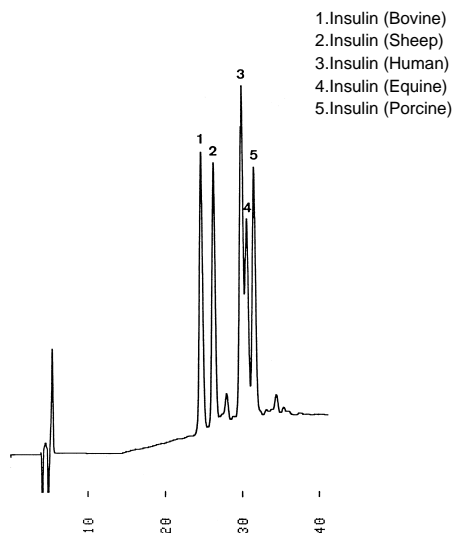


(H900723B)

Column : YMC-Pack PolymerC18
 250 \times 4.6 mm I.D.
 Eluent : acetonitrile/water/TFA (18/82/0.05)
 Flow rate : 0.5 mL/min
 Temperature : 30
 Detection : UV at 220 nm, 0.08 AUFS
 Injection : 10 μ L

インスリン

Insulins

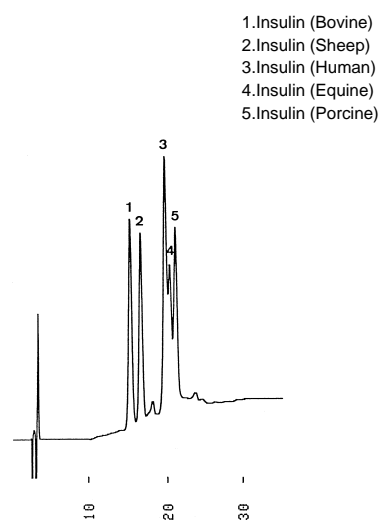


(G910522C)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
 250 \times 4.6 mm I.D.
 Eluent : A)acetonitrile/water/TFA (30/70/0.1)
 B)acetonitrile/water/TFA (32/68/0.1)
 0%B (0-3min), 0-100%B (3-25min,linear), 100%B (25-40min)
 Flow rate : 0.6 mL/min
 Temperature : 30
 Detection : UV at 220 nm, 0.16 AUFS
 Injection : 15 μ L (0.2 mg/mL)

インスリン

Insulins

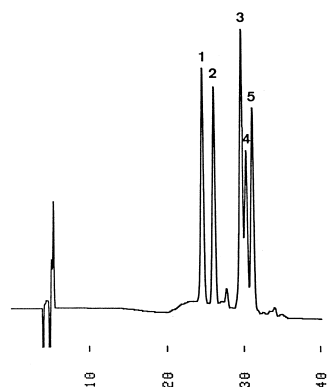


(G910522B)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
 150 \times 6.0 mm I.D.
 Eluent : A)acetonitrile/water/TFA (30/70/0.1)
 B)acetonitrile/water/TFA (32/68/0.1)
 0%B (0-3min), 0-100%B (3-25min,linear), 100%B (25-40min)
 Flow rate : 1.0 mL/min
 Temperature : 30
 Detection : UV at 220 nm, 0.16 AUFS
 Injection : 15 μ L (0.2 mg/mL)

インスリン Insulins

1. Insulin (Bovine)
2. Insulin (Sheep)
3. Insulin (Human)
4. Insulin (Equine)
5. Insulin (Porcine)

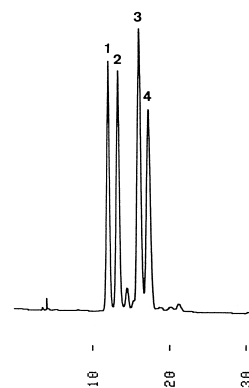


(G910522A)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
250 \times 6.0 mm I.D.
Eluent : A) acetonitrile/water/TFA (30/70/0.1)
B) acetonitrile/water/TFA (32/68/0.1)
0%B (0-3min), 0-100%B (3-25min, linear), 100%B (25-40min)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 220 nm, 0.16 AUFS
Injection : 15 μ L (0.2 mg/mL)

インスリン Insulins

1. Insulin (Bovine)
2. Insulin (Sheep)
3. Insulin (Human)
4. Insulin (Porcine)

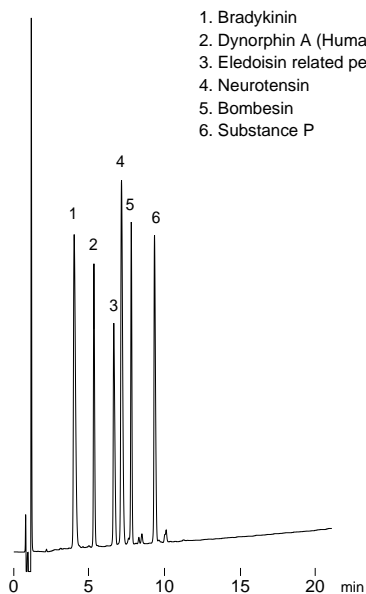


(G910522D)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 \times 6.0 mm I.D.
Eluent : A) acetonitrile/0.01N HCl (28/72)
B) acetonitrile/0.01N HCl (35/65)
0-100%B (0-60min, linear)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 220 nm, 0.16 AUFS
Injection : 15 μ L (0.25 mg/mL)

ペプチド Peptides

1. Bradykinin
2. Dynorphin A (Human, 1-13)
3. Eledoisin related peptide
4. Neurotensin
5. Bombesin
6. Substance P

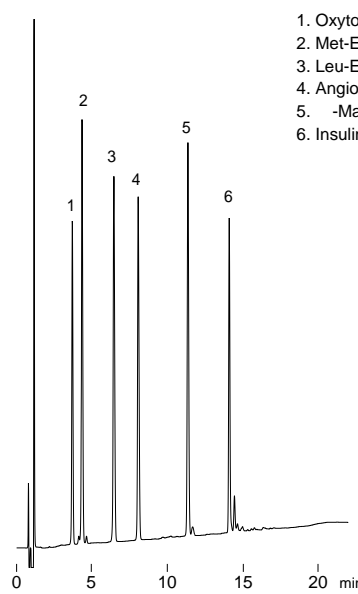


(A980827D)

Column : YMC-Pack Pro C18 (3 μ m, 12nm)
75 \times 4.6 mm I.D.
Eluent : A) water / TFA (100/0.1)
B) acetonitrile / TFA (100/0.1)
20-40%B (0-20min, linear)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.32 AUFS
Injection : 15 μ L (0.05 ~ 0.15 mg/mL)

ペプチド Peptides

1. Oxytocin
2. Met-Enkephalin
3. Leu-Enkephalin
4. Angiotensin I
5. -Mating factor
6. Insulin

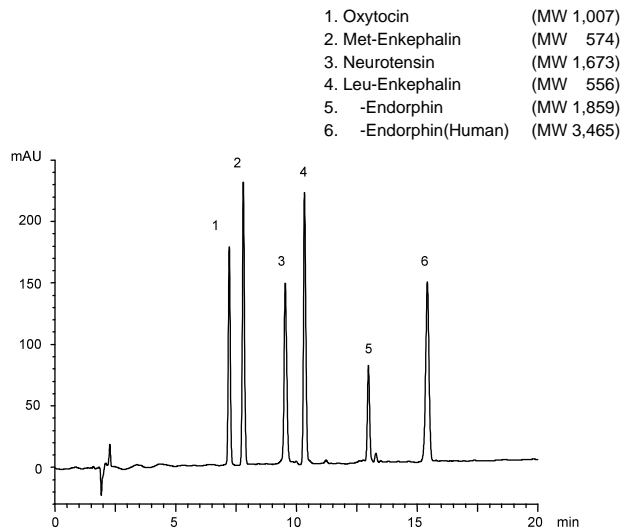


(A980827C)

Column : YMC-Pack Pro C18 (3 μ m, 12nm)
75 \times 4.6 mm I.D.
Eluent : A) water / TFA (100/0.1)
B) acetonitrile / TFA (100/0.1)
20-40%B (0-20min, linear)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.32 AUFS
Injection : 15 μ L (0.04 ~ 0.15 mg/mL)

ペプチド(MW 556 - 3, 465)

Peptides(MW 556 - 3, 465)

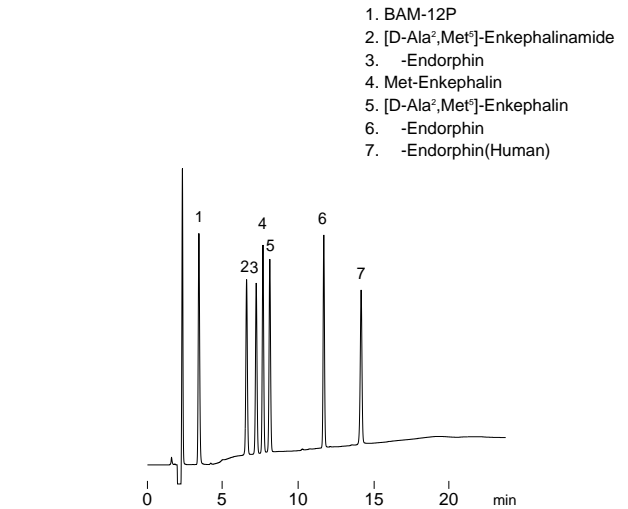


(N041021C)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
 150 \times 4.6 mm I.D.
 Eluent : A) water / TFA (100/0.05)
 B) acetonitrile / TFA (100/0.05)
 20-40%B (0-20min)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 220 nm
 Injection : 10 μ L (0.075 ~ 0.25 mg/mL)

ペプチド

Peptides

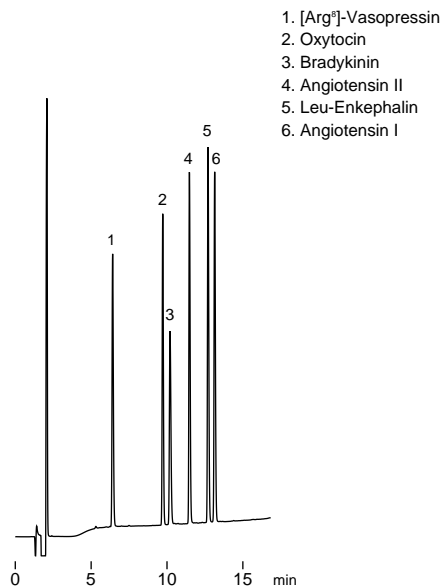


(A000308B)

Column : Hydrosphere C18 (5 μ m, 12nm)
 150 \times 4.6 mm I.D.
 Eluent : A) water/TFA (100/0.1)
 B) acetonitrile/TFA (100/0.1)
 20-40%B(0-15 min, linear),40%B(15-20 min)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 220 nm, 0.256 AUFS
 Injection : 10 μ L (0.05 ~ 0.1 mg/mL)

ペプチド

Peptides

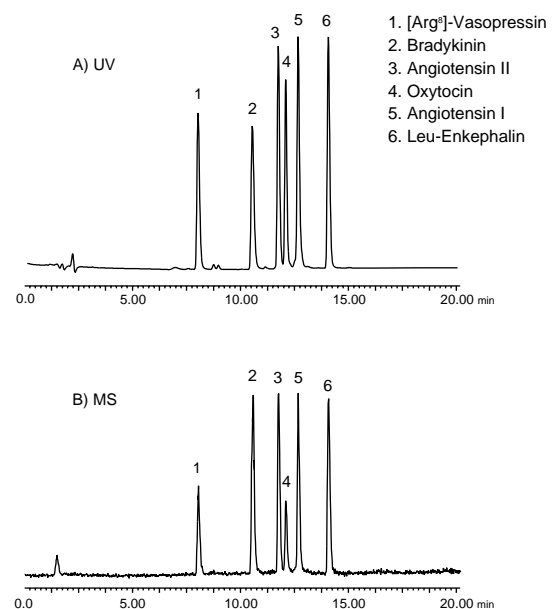


(A010821A)

Column : YMC-Pack Pro C18 RS (5 μ m, 8nm)
 150 \times 4.6 mm I.D.
 Eluent : A) water/TFA (100/0.1)
 B) acetonitrile/TFA (100/0.1)
 15-35%B(0-15 min)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 220 nm, 0.32 AUFS
 Injection : 20 μ L (0.05 mg/mL)

ペプチド - LC/MS

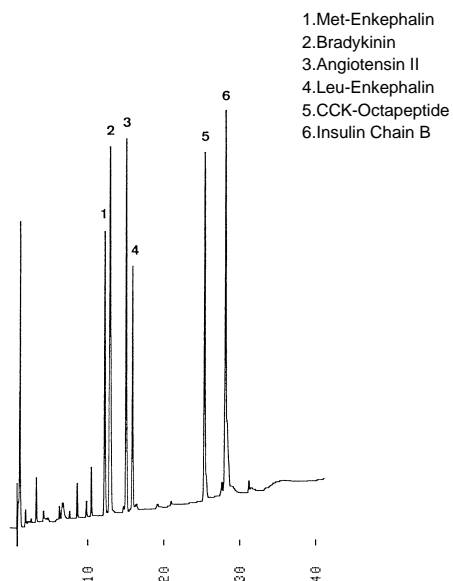
Peptides - LC/MS



(A020808A)

Column : YMC-Pack Pro C18 RS (5 μ m, 8nm)
 150 \times 2.0 mm I.D.
 Eluent : A) water/TFA (100/0.01)
 B) acetonitrile/TFA (100/0.01)
 10-35%B(0-15 min),10%B(15-20 min)
 Flow rate : 0.2 mL/min
 Temperature : 37
 Detection : A) UV at 220 nm, B) ESI positive-mode
 Injection : 4 μ L (0.05 mg/mL)

ペプチド Peptides

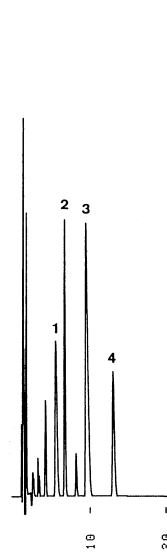


1. Met-Enkephalin
2. Bradykinin
3. Angiotensin II
4. Leu-Enkephalin
5. CCK-Octapeptide
6. Insulin Chain B

(S930909D)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : A) acetonitrile/water/TFA (5/95/0.1)
B) acetonitrile/water/TFA (40/60/0.1)
20-100%B (0-40min, linear)
Flow rate : 1.5 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.26 AUFS
Injection : 40 μ L (0.067 ~ 0.13 mg/mL)

ペプチド Peptides

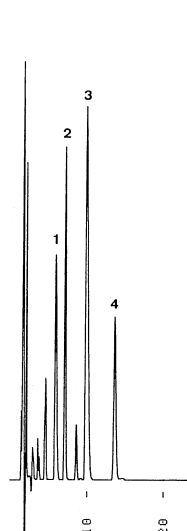


1. Bradykinin
2. Met-Enkephalin
3. Angiotensin III
4. Leu-Enkephalin

(O940804D)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/water/TFA (20/80/0.1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.32 AUFS
Injection : 20 μ L (34 ~ 65 μ g/mL)

ペプチド Peptides

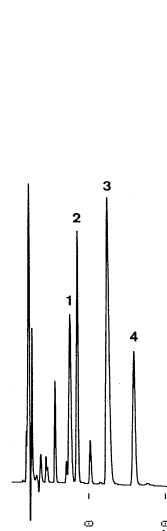


1. Bradykinin
2. Met-Enkephalin
3. Angiotensin III
4. Leu-Enkephalin

(O940804A)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 \times 2.0 mm I.D.
Eluent : acetonitrile/water/TFA (20/80/0.1)
Flow rate : 0.2 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.08 AUFS
Injection : 4 μ L (34 ~ 65 μ g/mL)

ペプチド Peptides



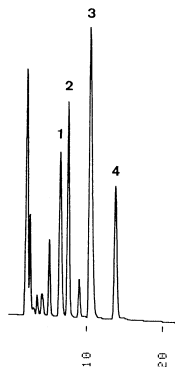
1. Bradykinin
2. Met-Enkephalin
3. Angiotensin III
4. Leu-Enkephalin

(O940804B)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 \times 1.5 mm I.D.
Eluent : acetonitrile/water/TFA (20/80/0.1)
Flow rate : 0.1 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.08 AUFS
Injection : 2 μ L (34 ~ 65 μ g/mL)

ペプチド Peptides

1. Bradykinin
2. Met-Enkephalin
3. Angiotensin III
4. Leu-Enkephalin

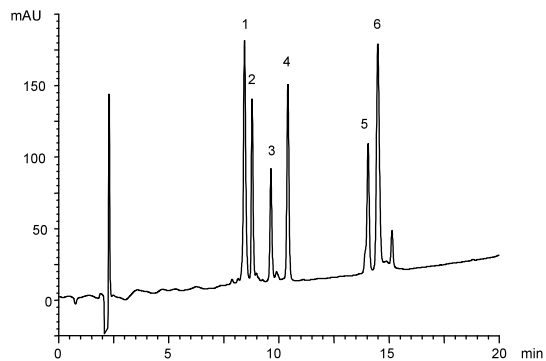


(O940804C)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 1.0 mm I.D.
Eluent : acetonitrile/water/TFA (20/80/0.1)
Flow rate : 0.05 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.08 AUFS
Injection : 1 μL (34 ~ 65 μg/mL)

ペプチドおよびタンパク質(MW 4,330 - 17,000) Peptides and proteins(MW 4,330 - 17,000)

1. Cytochrome c (Horse heart) (MW 12,400)
2. Insulin (Bovine pancreas) (MW 5,733)
3. Amyloid β-protein (1-40) (MW 4,330)
4. Lysozyme (Chicken egg white) (MW 14,300)
5. α-Lactalbumin (Human milk) (MW 14,100)
6. Myoglobin (Horse skeletal muscle) (MW 17,000)

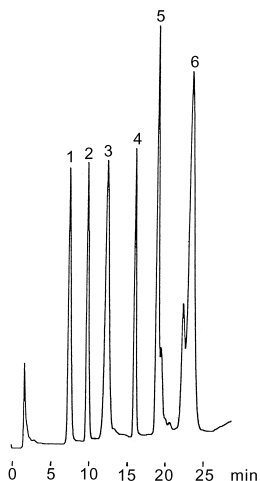


(N040820A)

Column : YMC-Pack C₈ (5 μm, 20nm)
150 × 4.6 mm I.D.
Eluent : A) water/TFA (100/0.1)
B) acetonitrile/TFA (100/0.1)
25-60%B (0-20 min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm
Injection : 10 μL (0.1 ~ 0.2 mg/mL)

ペプチドおよびタンパク質 Peptides and proteins

1. Met-Enkephalin
2. Leu-Enkephalin
3. BSA
4. -Mating factor
5. Insulin
6. Ovalbumin

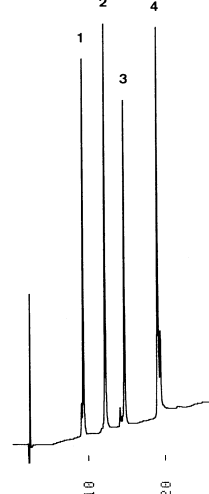


(H900606A)

Column : YMC-Pack PolymerC18
150 × 4.6 mm I.D.
Eluent : A) acetonitrile/water/TFA (20/80/0.05)
B) acetonitrile/water/TFA (45/55/0.05)
0-100%B (0-30min, linear)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 220 nm, 0.32 AUFS
Injection : 30 μL

タンパク質 Proteins

1. Ribonuclease A
2. Cytochrome c
3. Lysozyme
4. Myoglobin

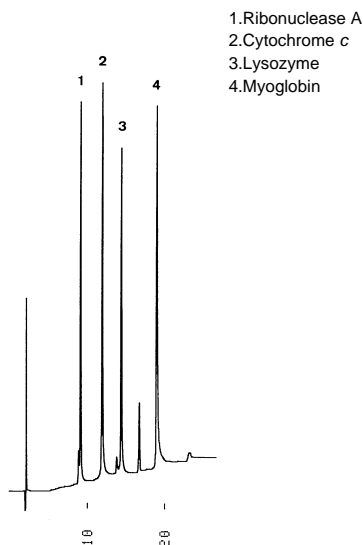


(T931029A)

Column : YMC-Pack ODS-A (5 μm, 30nm)
150 × 4.6 mm I.D.
Eluent : A) acetonitrile/water/TFA (5/95/0.1)
B) acetonitrile/water/TFA (60/40/0.1)
30-90%B (0-20min, linear), 90%B (20-25min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.32 AUFS
Injection : 16 μL (0.16 ~ 0.33 mg/mL)

タンパク質

Proteins

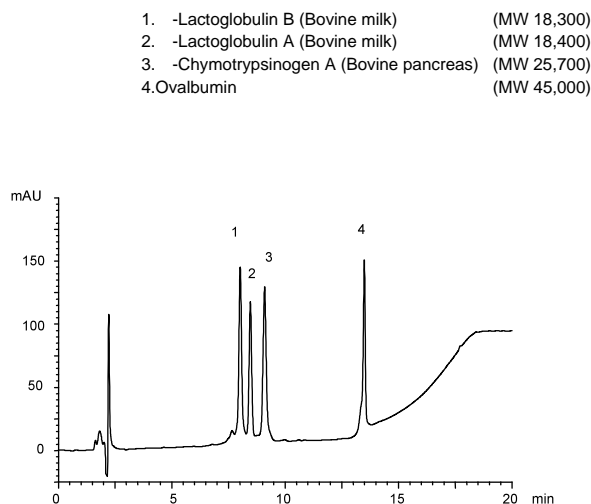


(B931023A)

Column : YMC-Pack C₄ (5 μm, 30nm)
150 × 4.6 mm I.D.
Eluent : A) acetonitrile/water/TFA (5/95/0.1)
B) acetonitrile/water/TFA (60/40/0.1)
30-90%B (0-20min, linear), 90%B (20-25min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.32 AUFS
Injection : 16 μL (0.16 ~ 0.33 mg/mL)

タンパク質(MW 18,300 - 45,000)

Proteins(MW 18,300 - 45,000)



(N041126A)

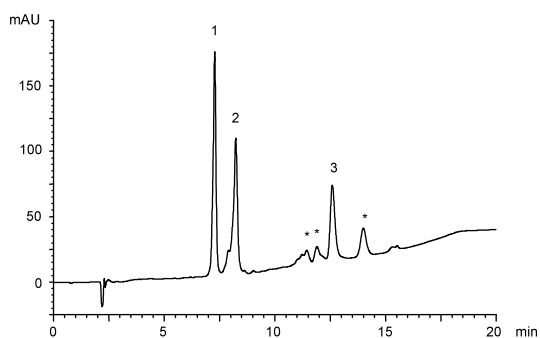
Column : YMC-Pack C₄ (5 μm, 30nm)
150 × 4.6 mm I.D.
Eluent : A) water/TFA (100/0.1)
B) acetonitrile/TFA (100/0.1)
40-50%B (0-10min), 50-90%B (10-15min), 90%B (15-20min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm
Injection : 10 μL (0.2 ~ 0.3 mg/mL)

タンパク質(MW 66,000 - 96,000)

Proteins(MW 66,000 - 96,000)

1. BSA (MW 66,000)
2. Conalbumin (Chicken egg white) (MW 77,000)
3. Lipoxidase (Soybean) (MW 96,000)

* Impurities in commercial lipoxidase



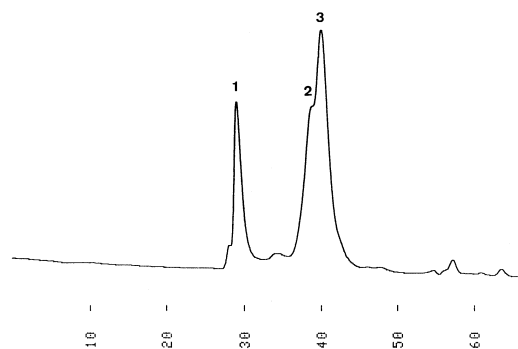
(N040930G)

Column : YMC-Pack C₄ (5 μm, 30nm)
150 × 4.6 mm I.D.
Eluent : A) water/TFA (100/0.1)
B) acetonitrile/2-propanol/TFA (50/50/0.1)
30-75%B (0-15min), 75%B (15-20min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm
Injection : 10 μL (0.25 ~ 1.0 mg/mL)

ヒト免疫グロブリン

Human immunoglobulins

1. Human IgM (), myeloma protein
2. Normal human IgA
3. Normal human IgG

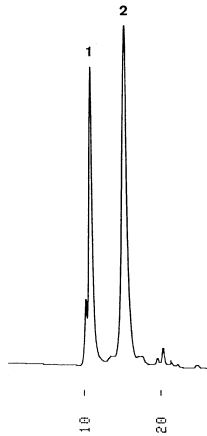


(G920108G)

Column : YMC-Pack Diol-300 + Diol-200
500 × 8.0 mm I.D. × 2
Eluent : 0.1M NaH₂PO₄ - Na₂HPO₄ (pH 6.8) containing 0.1M Na₂SO₄
Flow rate : 0.7 mL/min
Temperature : ambient (24)
Detection : UV at 280 nm, 0.04 AUFS
Injection : 60 μL (0.33 mg/mL)

ヒト免疫グロブリン Human immunoglobulins

1. Human IgM (), myeloma protein
2. Normal human IgG

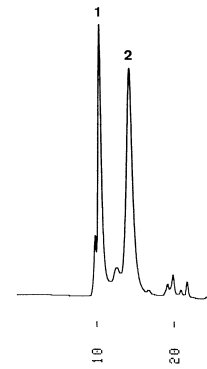


(G920108F)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : 0.1M NaH₂PO₄ - Na₂HPO₄ (pH 6.8) containing 0.1M Na₂SO₄
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : UV at 280 nm, 0.04 AUFS
Injection : 40 μ L (0.5 mg/mL)

ヒト免疫グロブリン Human immunoglobulins

1. Human IgM (), myeloma protein
2. Normal human IgA



(G920108E)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : 0.1M NaH₂PO₄ - Na₂HPO₄ (pH 6.8) containing 0.1M Na₂SO₄
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : UV at 280 nm, 0.04 AUFS
Injection : 40 μ L (0.5 mg/mL)

ヒト免疫グロブリン(IgM 鎖, ミエローマタンパク質) Human IgM(), myeloma protein

1. Normal human IgM (), myeloma protein

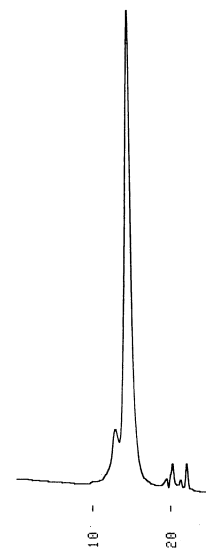


(G920108D)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : 0.1M NaH₂PO₄ - Na₂HPO₄ (pH 6.8) containing 0.1M Na₂SO₄
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : UV at 280 nm, 0.04 AUFS
Injection : 20 μ L (1.0 mg/mL)

ヒト免疫グロブリン(IgA) Normal human IgA

1. Normal human IgA

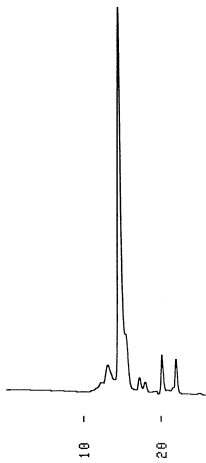


(G920108C)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : 0.1M NaH₂PO₄ - Na₂HPO₄ (pH 6.8) containing 0.1M Na₂SO₄
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : UV at 280 nm, 0.02 AUFS
Injection : 20 μ L (1.0 mg/mL)

ヒト免疫グロブリン(IgG 鎖, ミエローマタンパク質)
Human IgG (), myeloma protein

1. Human IgG (), myeloma protein

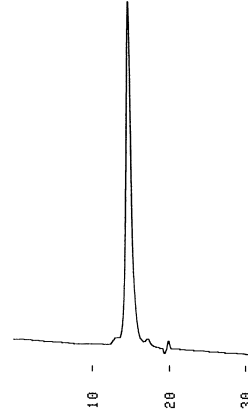


(G920108B)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : 0.1M NaH₂PO₄ - Na₂HPO₄ (pH 6.8) containing 0.1M Na₂SO₄
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : UV at 280 nm, 0.04 AUFS
Injection : 20 μ L (1.0 mg/mL)

ヒト免疫グロブリン(IgG)
Normal human IgG

1. Normal human IgG

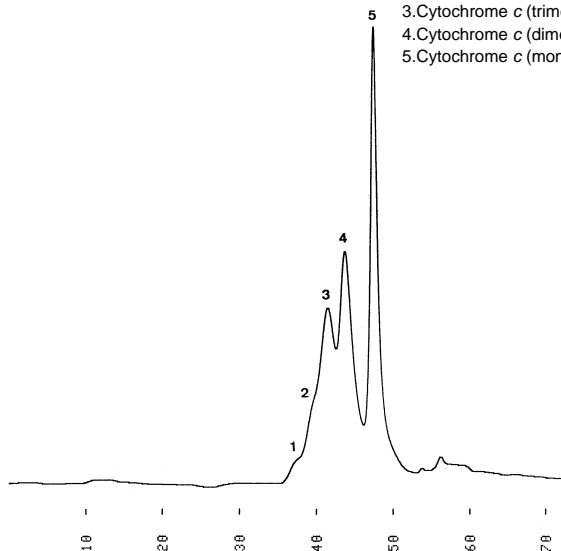


(G920108A)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : 0.1M NaH₂PO₄ - Na₂HPO₄ (pH 6.8) containing 0.1M Na₂SO₄
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : UV at 280 nm, 0.04 AUFS
Injection : 20 μ L (1.0 mg/mL)

チトクローム c
Cytochrome c

1. Cytochrome c (hexamer)
2. Cytochrome c (tetramer)
3. Cytochrome c (trimer)
4. Cytochrome c (dimer)
5. Cytochrome c (monomer)

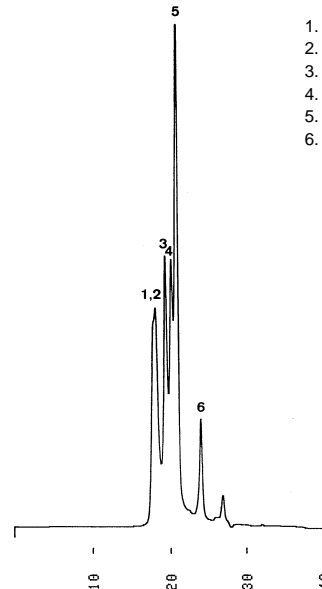


(G911217D)

Column : YMC-Pack Diol-200 + Diol-120
500 × 8.0 mm I.D. × 2
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : UV at 215 nm, 0.08 AUFS
Injection : 30 μ L (0.2 mg/mL)

ミオグロビン分解物
Peptide fragments from myoglobin

1. 1-153 (MW 17,000)
2. 1-131 (MW 14,500)
3. 56-153 (MW 10,700)
4. 56-131 (MW 8,200)
5. 1-55 (MW 6,300)
6. 132-153 (MW 2,500)

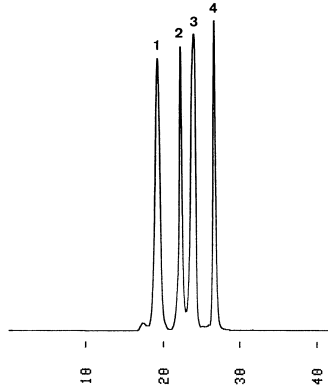


(G911218A)

Column : YMC-Pack Diol-120
500 × 8.0 mm I.D.
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl/acetonitrile (70/30)
Flow rate : 0.7 mL/min
Temperature : ambient (25)
Detection : UV at 215 nm, 0.32 AUFS
Injection : 20 μ L (2.0 mg/mL)
Sample : cyanogen bromide cleavages of horse heart myoglobin.
Molecular Weight Marker for proteins, manufactured by Fluka Chemie AG.

ペプチド Peptides

1. Insulin (Bovine)
2. Neurotensin
3. Angiotensin II
4. Glycine

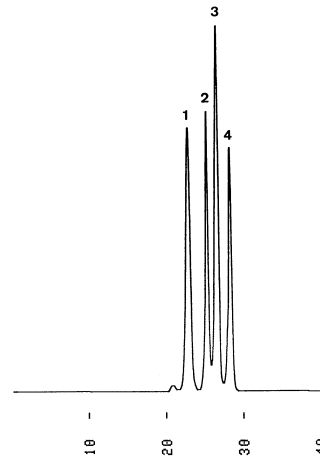


(G911217A)

Column : YMC-Pack Diol-60
500 × 8.0 mm I.D.
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl/acetonitrile (70/30)
Flow rate : 0.7 mL/min
Temperature : ambient (25)
Detection : UV at 215 nm, 0.16 AUFS
Injection : 25 μ L (0.07 ~ 5.3 mg/mL)

ペプチド Peptides

1. Insulin (Bovine)
2. Neurotensin
3. Angiotensin II
4. Glycine

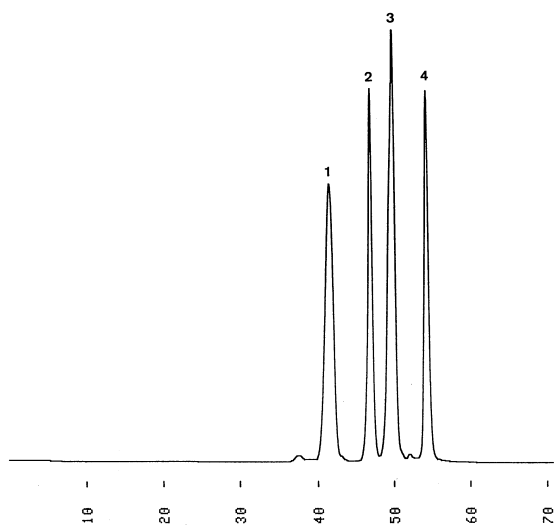


(G911217B)

Column : YMC-Pack Diol-120
500 × 8.0 mm I.D. × 2
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl/acetonitrile (70/30)
Flow rate : 0.7 mL/min
Temperature : ambient (25)
Detection : UV at 215 nm, 0.16 AUFS
Injection : 25 μ L (0.07 ~ 5.3 mg/mL)

ペプチド Peptides

1. Insulin (Bovine)
2. Neurotensin
3. Angiotensin II
4. Glycine

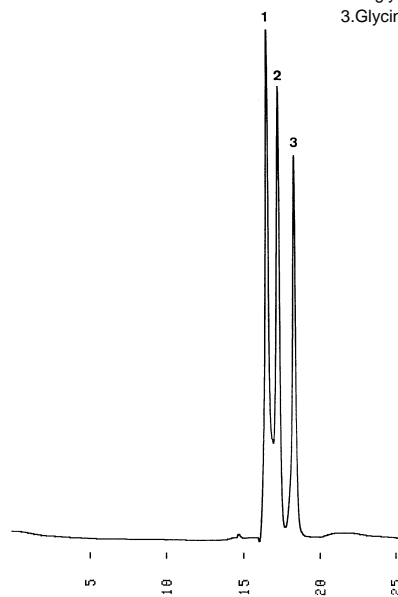


(G911217C)

Column : YMC-Pack Diol-120 + Diol-60
500 × 8.0 mm I.D. × 2
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl/acetonitrile (70/30)
Flow rate : 0.7 mL/min
Temperature : ambient (25)
Detection : UV at 215 nm, 0.08 AUFS
Injection : 25 μ L (0.07 ~ 5.3 mg/mL)

グリシンオリゴマー Glycine oligomers

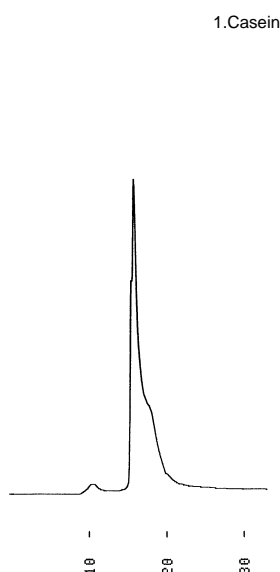
1. Pentaglycine
2. Triglycine
3. Glycine



(G911227B)

Column : YMC-Pack Diol-60
500 × 8.0 mm I.D.
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0)/acetonitrile (70/30)
Flow rate : 1.0 mL/min
Temperature : ambient (24)
Detection : UV at 215 nm, 0.08 AUFS
Injection : 20 μ L (0.25 ~ 2.5 mg/mL)

カゼイン Casein

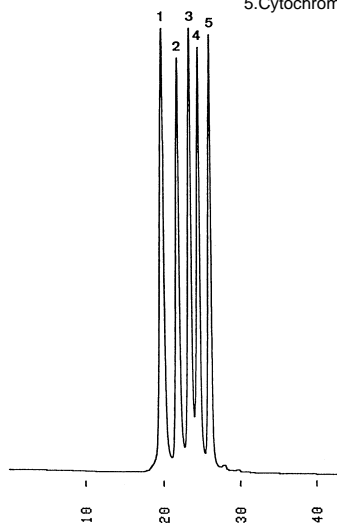


(G920123B)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl/acetonitrile (90/10)
Flow rate : 1.0 mL/min
Temperature : ambient (22)
Detection : UV at 215 nm, 0.16 AUFS
Injection : 15 μ L (1.0 mg/mL)

タンパク分子量マーカー Proteins for molecular weight marker

1. Glutamate dehydrogenase (MW 290,000)
2. Lactate dehydrogenase (MW 142,000)
3. Enolase (MW 67,000)
4. Adenylate kinase (MW 32,000)
5. Cytochrome c (MW 12,400)

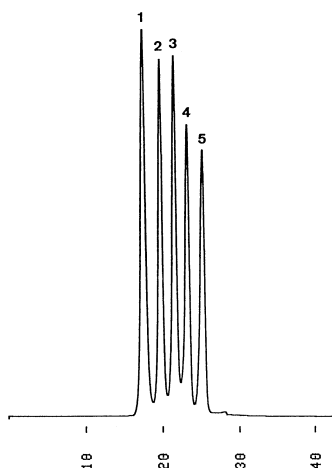


(G911213A)

Column : YMC-Pack Diol-300
500 × 8.0 mm I.D.
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl
Flow rate : 0.7 mL/min
Temperature : ambient (26)
Detection : UV at 280 nm, 0.08 AUFS
Injection : 15 μ L (100 μ L/1 vial)
Sample : MW-Marker(HPLC), manufactured by ORIENTAL YEAST CO.,LTD.

タンパク分子量マーカー Proteins for molecular weight marker

1. Glutamate dehydrogenase (MW 290,000)
2. Lactate dehydrogenase (MW 142,000)
3. Enolase (MW 67,000)
4. Adenylate kinase (MW 32,000)
5. Cytochrome c (MW 12,400)

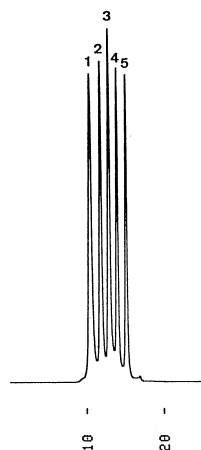


(G911214A)

Column : YMC-Pack Diol-200
500 × 8.0 mm I.D.
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl
Flow rate : 0.7 mL/min
Temperature : ambient (26)
Detection : UV at 280 nm, 0.08 AUFS
Injection : 15 μ L (100 μ L/1 vial)
Sample : MW-Marker(HPLC), manufactured by ORIENTAL YEAST CO.,LTD.

タンパク分子量マーカー Proteins for molecular weight marker

1. Glutamate dehydrogenase (MW 290,000)
2. Lactate dehydrogenase (MW 142,000)
3. Enolase (MW 67,000)
4. Adenylate kinase (MW 32,000)
5. Cytochrome c (MW 12,400)

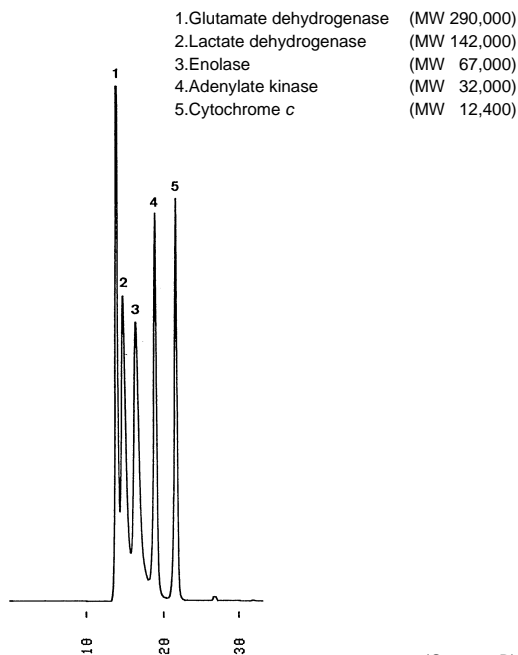


(G911214I)

Column : YMC-Pack Diol-200
300 × 8.0 mm I.D.
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl
Flow rate : 0.7 mL/min
Temperature : ambient (26)
Detection : UV at 280 nm, 0.16 AUFS
Injection : 15 μ L (100 μ L/1 vial)
Sample : MW-Marker(HPLC), manufactured by ORIENTAL YEAST CO.,LTD.

タンパク分子量マーカー

Proteins for molecular weight marker

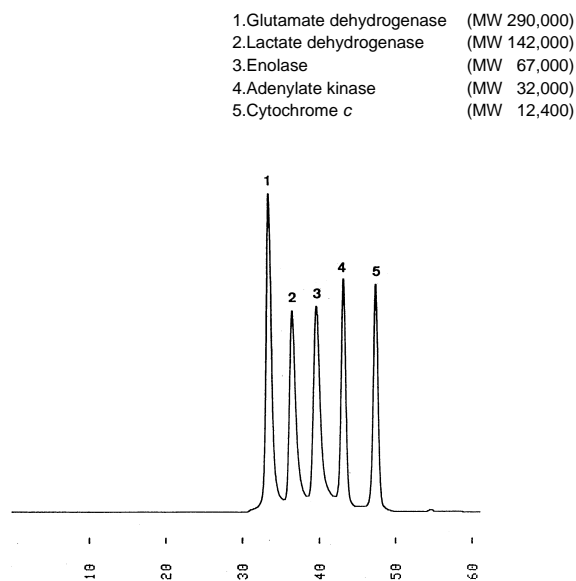


(G911214B)

Column : YMC-Pack Diol-120
500 × 8.0 mm I.D.
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl
Flow rate : 0.7 mL/min
Temperature : ambient (26)
Detection : UV at 280 nm, 0.08 AUFS
Injection : 15 μL (100 μL/1 vial)
Sample : MW-Marker(HPLC), manufactured by ORIENTAL YEAST CO.,LTD.

タンパク分子量マーカー

Proteins for molecular weight marker

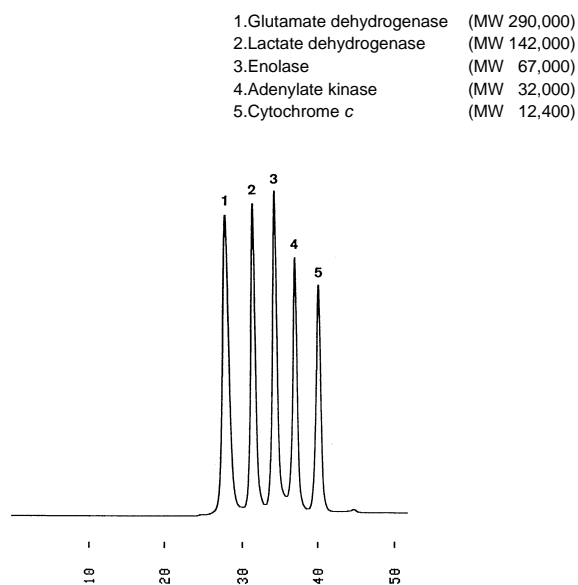


(G911214C)

Column : YMC-Pack Diol-120 + Diol-300
500 × 8.0 mm I.D. × 2
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl
Flow rate : 0.7 mL/min
Temperature : ambient (26)
Detection : UV at 280 nm, 0.08 AUFS
Injection : 15 μL (100 μL/1 vial)
Sample : MW-Marker(HPLC), manufactured by ORIENTAL YEAST CO.,LTD.

タンパク分子量マーカー

Proteins for molecular weight marker



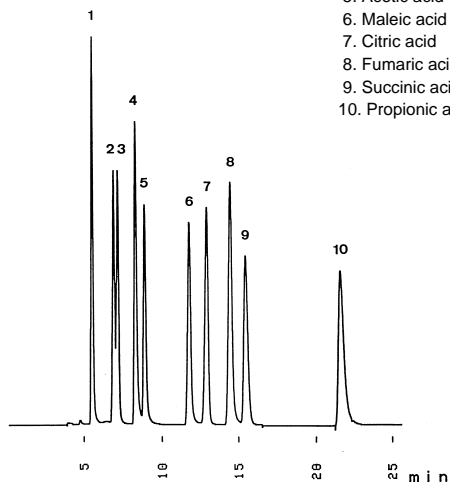
(G911214H)

Column : YMC-Pack Diol-200 + Diol-200
500 × 8.0 mm I.D. + 300 × 8.0 mm I.D.
Eluent : 0.1M KH₂PO₄ - K₂HPO₄ (pH 7.0) containing 0.2M NaCl
Flow rate : 0.7 mL/min
Temperature : ambient (26)
Detection : UV at 280 nm, 0.08 AUFS
Injection : 15 μL (100 μL/1 vial)
Sample : MW-Marker(HPLC), manufactured by ORIENTAL YEAST CO.,LTD.

有機酸

Organic acids

1. Glycolic acid
2. L-Malic acid
3. Malonic acid
4. Lactic acid
5. Acetic acid
6. Maleic acid
7. Citric acid
8. Fumaric acid
9. Succinic acid
10. Propionic acid



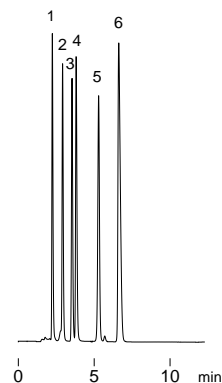
(T910226A)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
250 × 4.6 mm I.D.
Eluent : 20mM H₃PO₄ - NaH₂PO₄ (pH 2.8)
Flow rate : 0.7 mL/min
Temperature : 30
Detection : UV at 220 nm, 0.08 AUFS
Injection : 10 μ L (0.007 ~ 1.8 mg/mL)

有機酸

Organic acids

1. Tartaric acid
2. L-Malic acid
3. Lactic acid
4. Acetic acid
5. Citric acid
6. Succinic acid



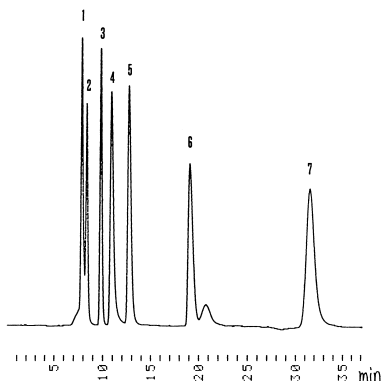
(A001218A)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM NaH₂PO₄ - H₃PO₄ (pH 2.8)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 220 nm, 0.064 AUFS
Injection : 10 μ L (0.25 ~ 2.0 mg/mL)

有機酸

Organic acids

1. L-Malic acid
2. Lactic acid
3. Acetic acid
4. Maleic acid
5. Succinic acid
6. Propionic acid
7. Fumaric acid

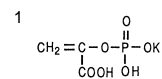
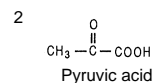


(Y910209)

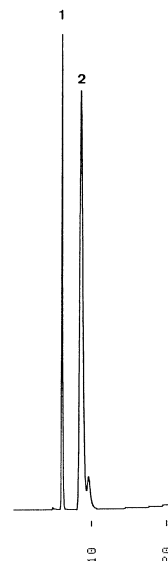
Column : YMC-Pack PolymerC18
250 × 4.6 mm I.D.
Eluent : 0.1% TFA
Flow rate : 0.5 mL/min
Temperature : 30
Detection : UV at 220 nm, 0.08 AUFS
Injection : 10 μ L (0.016 ~ 2.2 mg/mL)

ピルビン酸

Pyruvic acids

Phosphoenolpyruvic acid
monopotassium salt

Pyruvic acid

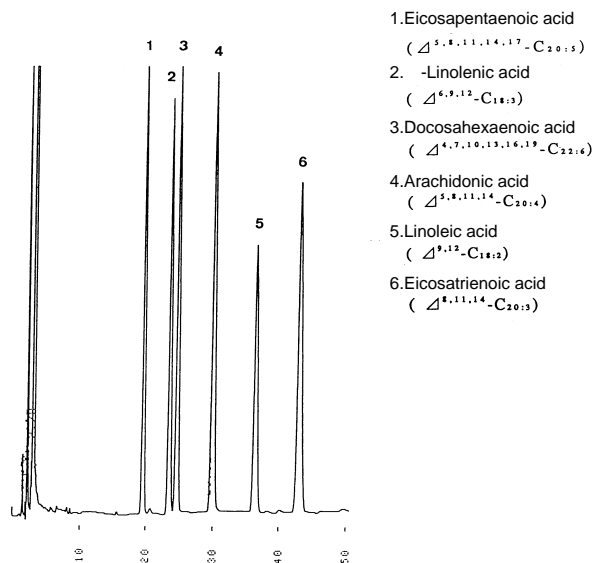


(O940901H)

Column : YMC-Pack PolymerC18
250 × 4.6 mm I.D.
Eluent : 100mM H₃PO₄ (pH 1.7)
Flow rate : 0.5 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.64 AUFS
Injection : 5 μ L (0.7, 20 mg/mL)

不飽和脂肪酸メチルエステル

Unsaturated fatty acid methyl esters



1. Eicosapentaenoic acid
($\Delta^{5,8,11,14,17}$ -C_{20:5})
2. α -Linolenic acid
($\Delta^{6,9,12}$ -C_{18:3})
3. Docosahexaenoic acid
($\Delta^{4,7,10,13,16,19}$ -C_{22:6})
4. Arachidonic acid
($\Delta^{5,8,11,14}$ -C_{20:4})
5. Linoleic acid
($\Delta^{9,12}$ -C_{18:2})
6. Eicosatrienoic acid
($\Delta^{6,11,14}$ -C_{20:3})

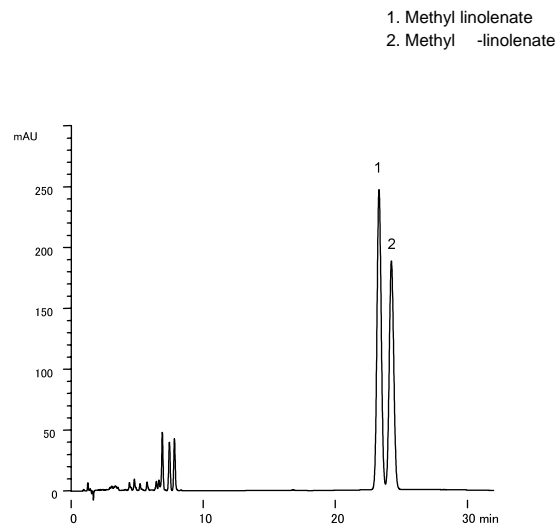
Courtesy of Dr. Yuji Saito, Tokyo Institute of Technology

(K930323A)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : acetonitrile/water (81/19)
Flow rate : 1.5 mL/min
Temperature : ambient
Detection : UV at 190 nm, 0.128 AUFS
Injection : 20 μ L (0.165 mg/mL)

リノレン酸メチル異性体

Methyl linolenate isomers



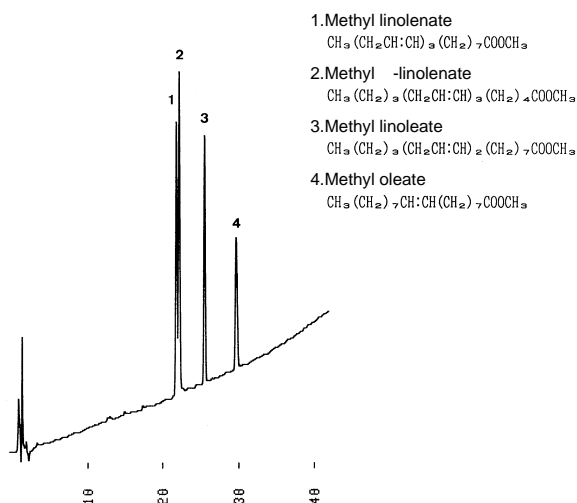
1. Methyl linolenate
2. Methyl α -linolenate

(F040713A)

Column : YMC-Pack Pro C18 RS (3 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/THF/water (35/30/35)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 210 nm
Injection : 2 μ L (2.5 μ g/mL)

不飽和脂肪酸メチルエステル

Unsaturated fatty acid methyl esters



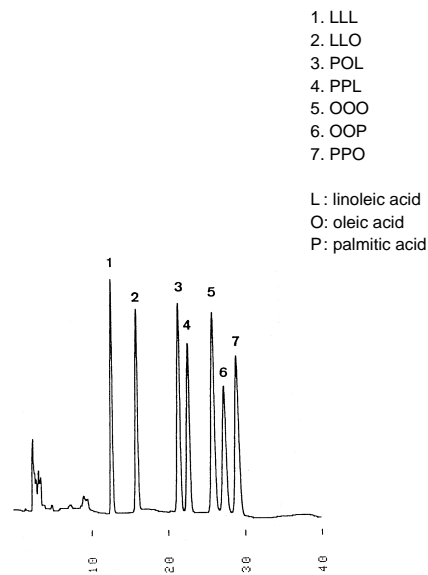
1. Methyl linolenate
 $\text{CH}_3(\text{CH}_2\text{CH}=\text{CH})_3(\text{CH}_2)_7\text{COOCH}_3$
2. Methyl α -linolenate
 $\text{CH}_3(\text{CH}_2)_5(\text{CH}_2\text{CH}=\text{CH})_3(\text{CH}_2)_4\text{COOCH}_3$
3. Methyl linoleate
 $\text{CH}_3(\text{CH}_2)_7(\text{CH}_2\text{CH}=\text{CH})_2(\text{CH}_2)_7\text{COOCH}_3$
4. Methyl oleate
 $\text{CH}_3(\text{CH}_2)_7\text{CH}=\text{CH}(\text{CH}_2)_7\text{COOCH}_3$

(S931012C)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : A) acetonitrile/THF/water (10/30/60)
B) acetonitrile/THF/water (65/30/5)
20-100%B (0-40min, linear)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.51 AUFS
Injection : 18 μ L (0.25 ~ 4 μ g/mL)

トリアシルグリセロール

Triacylglycerols



1. LLL
2. LLO
3. POL
4. PPL
5. OOO
6. OOP
7. PPO

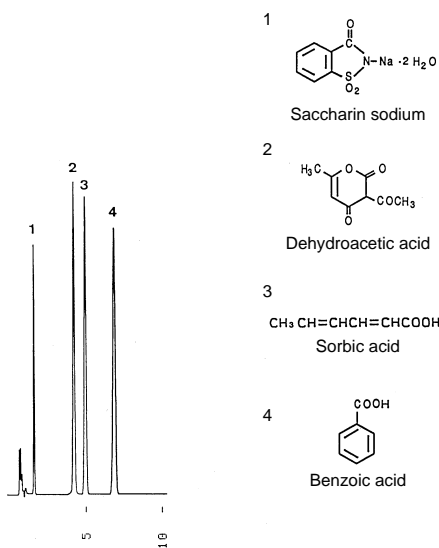
L : linoleic acid
O : oleic acid
P : palmitic acid

(O940914F)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
250 \times 4.6 mm I.D.
Eluent : acetonitrile/2-propanol (55/45)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.08 AUFS
Injection : 30 μ L (0.08 ~ 1.66 mg/mL)

食品保存料

Food preservatives

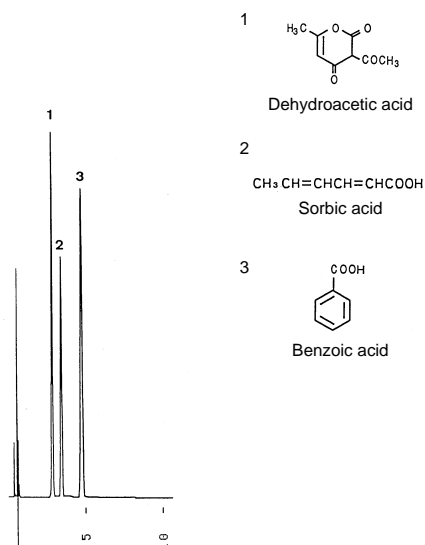


(O940819A)

Column : J'sphere ODS-H80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : THF/water/TFA (20/80/0.1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.16 AUFS
Injection : 2 μL (0.13 ~ 0.32 mg/mL)

食品保存料

Food preservatives

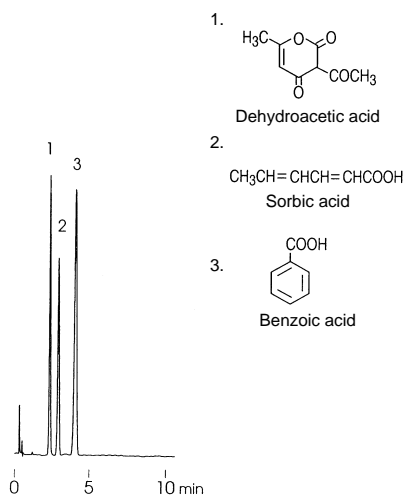


(O940802I)

Column : J'sphere ODS-M80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : THF/water/acetic acid (20/80/0.5)
Flow rate : 2.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.08 AUFS
Injection : 4 μL (56 μg/mL)

食品保存料

Food preservatives

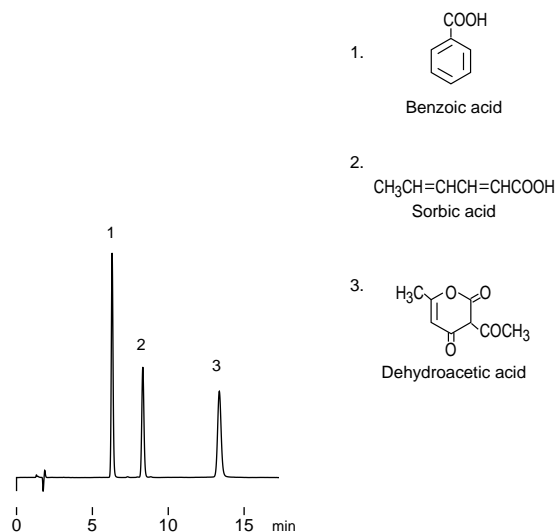


(S970204F)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
75 × 4.6 mm I.D.
Eluent : THF/water/acetic acid (20/80/0.5)
Flow rate : 2.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.13 AUFS
Injection : 5 μL (0.05 mg/mL)

食品保存料

Food preservatives

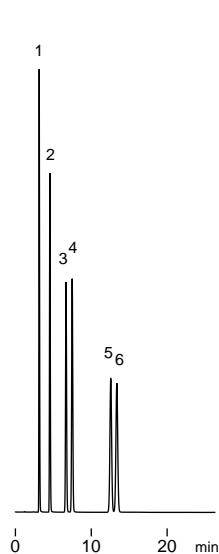


(J011213F)

Column : YMC-Pack Pro C18 RS (5 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : 20mM CH₃COONa-CH₃COOH(pH 4.3) / acetonitrile (80/20)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.26 AUFS
Injection : 10 μL (0.02 mg/mL)

パラオキシ安息香酸エステル類

p-Hydroxybenzoic acid esters



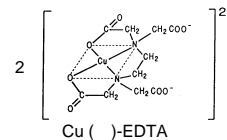
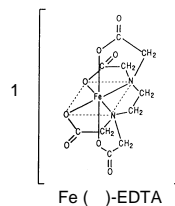
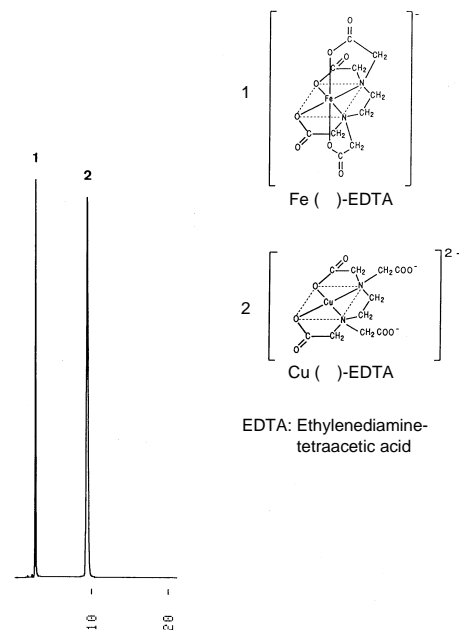
1. CC(=O)Oc1ccc(O)cc1
Methyl *p*-hydroxybenzoate
2. CCOC(=O)c1ccc(O)cc1
Ethyl *p*-hydroxybenzoate
3. CC(C)C(=O)Oc1ccc(O)cc1
Isopropyl *p*-hydroxybenzoate
4. CCCOC(=O)c1ccc(O)cc1
Propyl *p*-hydroxybenzoate
5. CC(C)C(C)C(=O)Oc1ccc(O)cc1
Isobutyl *p*-hydroxybenzoate
6. CCCCOC(=O)c1ccc(O)cc1
Butyl *p*-hydroxybenzoate

(J020826A)

Column : YMC-Pack Pro C18 RS (5 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : methanol/water (60/40)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 270 nm, 0.32 AUFS
Injection : 4 μL (0.1 mg/mL)

EDTAキレート

EDTA-chelates



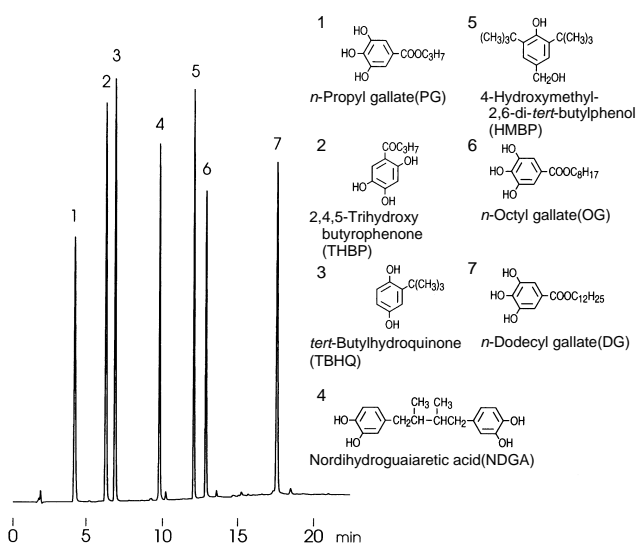
EDTA: Ethylenediamine-tetraacetic acid

(T940208A)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : 50mM CH₃COONa - CH₃COOH (pH 4.6) containing
20mM tetrabutylammonium bromide
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.04 AUFS
Injection : 10 μL (0.017 ~ 0.13 mg/mL)

酸化防止剤

Antioxidants



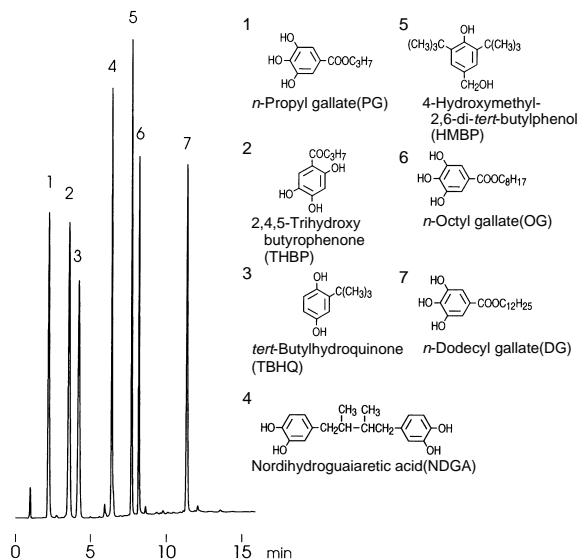
1. CC(=O)Oc1ccc(O)c(O)c1
n-Propyl gallate (PG)
2. CC(=O)Oc1ccc(O)c(O)c1
2,4,5-Trihydroxybutyrophenone (THBP)
3. CC(C)(C)C1=CC(=C(O)C=C1C2=CC(=C(O)C=C2)O
tert-Butylhydroquinone (TBHQ)
4. CC(C)C1=CC(=C(O)C=C1)C2=CC(=C(O)C=C2)O
Nordihydroguaiaretic acid (NDGA)
5. CC(C)(C)C1=CC(=C(O)C=C1)C2=CC(=C(O)C=C2)O
4-Hydroxymethyl-2,6-di-*tert*-butylphenol (HMBP)
6. CCCCCCCCC(=O)Oc1ccc(O)c(O)c1
n-Octyl gallate (OG)
7. CCCCCCCCCCCCC(=O)Oc1ccc(O)c(O)c1
n-Dodecyl gallate (DG)

(A970524B)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : A) acetonitrile/methanol/5% acetic acid (20/20/60)
B) acetonitrile/methanol/5% acetic acid (45/45/10)
0-100%B (0-10min), 100%B (10-20min)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 280 nm, 0.32 AUFS
Injection : 9 μL (0.05 ~ 0.6 mg/mL)

酸化防止剤

Antioxidants



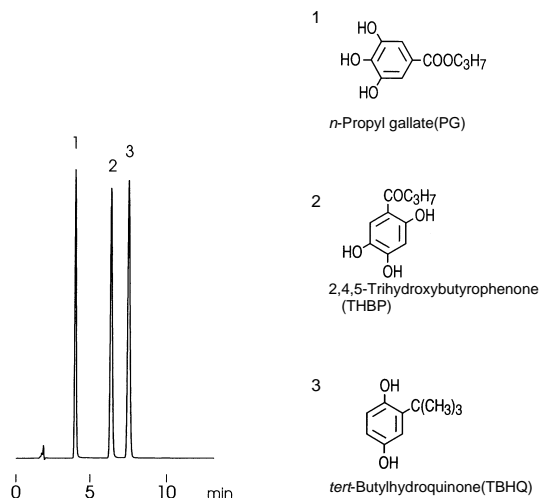
1. CC(=O)Oc1ccc(O)c(O)c1
n-Propyl gallate (PG)
2. CC(=O)Oc1ccc(O)c(O)c1
2,4,5-Trihydroxybutyrophenone (THBP)
3. CC(C)(C)C1=CC(=C(O)C=C1C2=CC(=C(O)C=C2)O
tert-Butylhydroquinone (TBHQ)
4. CC(C)C1=CC(=C(O)C=C1)C2=CC(=C(O)C=C2)O
Nordihydroguaiaretic acid (NDGA)
5. CC(C)(C)C1=CC(=C(O)C=C1)C2=CC(=C(O)C=C2)O
4-Hydroxymethyl-2,6-di-*tert*-butylphenol (HMBP)
6. CCCCCCCCC(=O)Oc1ccc(O)c(O)c1
n-Octyl gallate (OG)
7. CCCCCCCCCCCCC(=O)Oc1ccc(O)c(O)c1
n-Dodecyl gallate (DG)

(A970526C)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
75 × 4.6 mm I.D.
Eluent : A) acetonitrile/methanol/5% acetic acid (20/20/60)
B) acetonitrile/methanol/5% acetic acid (45/45/10)
0-100%B (0-5min), 100%B (5-15min)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 280 nm, 0.32 AUFS
Injection : 9 μL (0.05 ~ 0.6 mg/mL)

酸化防止剤

Antioxidants

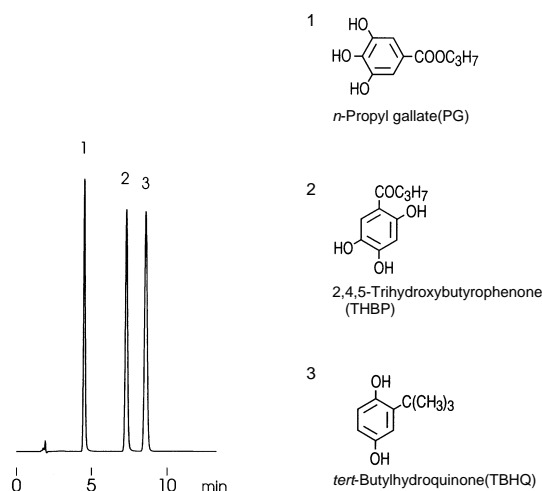


(A970522B)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/methanol/5% acetic acid (20/20/60)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 280 nm, 0.32 AUFS
Injection : 10 μ L (0.05 ~ 0.2 mg/mL)

酸化防止剤

Antioxidants

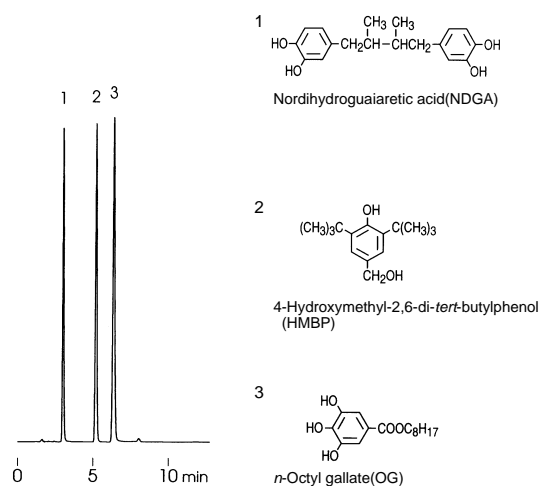


(A970522D)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/methanol/5% acetic acid (20/20/60)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 280 nm, 0.32 AUFS
Injection : 10 μ L (0.05 ~ 0.2 mg/mL)

酸化防止剤

Antioxidants

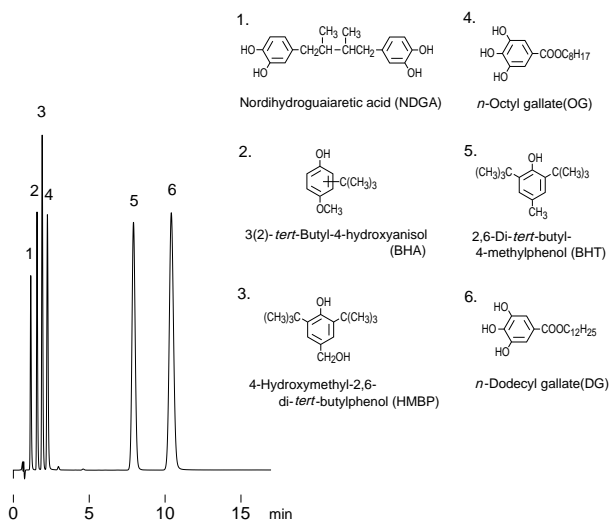


(A970521B)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/methanol/5% acetic acid (35/35/30)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 280 nm, 0.32 AUFS
Injection : 10 μ L (0.1 ~ 0.6 mg/mL)

酸化防止剤

Antioxidants

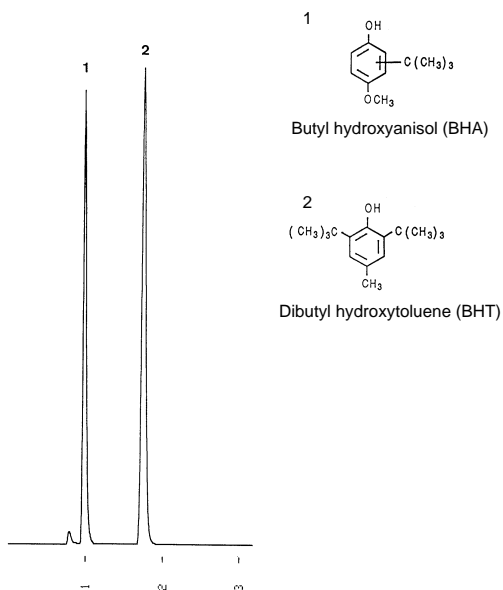


(J010215B)

Column : Hydrosphere C18 (3 μ m, 12nm)
50 × 4.6 mm I.D.
Eluent : acetonitrile / methanol / 5% acetic acid (35/35/30)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 280 nm, 0.32 AUFS
Injection : 10 μ L (0.05 ~ 0.5 mg/mL)

酸化防止剤

Antioxidants

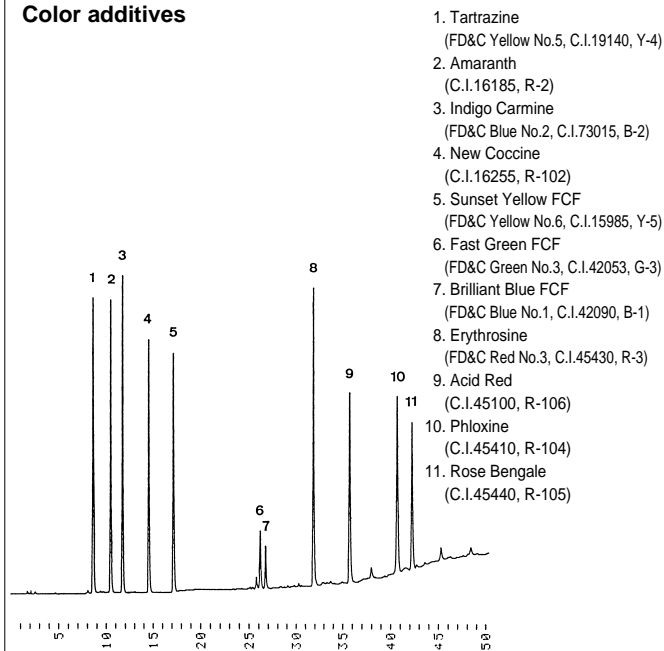


(O940810D)

Column : J'sphere ODS-H80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : methanol/water (95/5)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 280 nm, 0.16 AUFS
Injection : 1 μL (0.5 mg/mL)

タール色素

Color additives

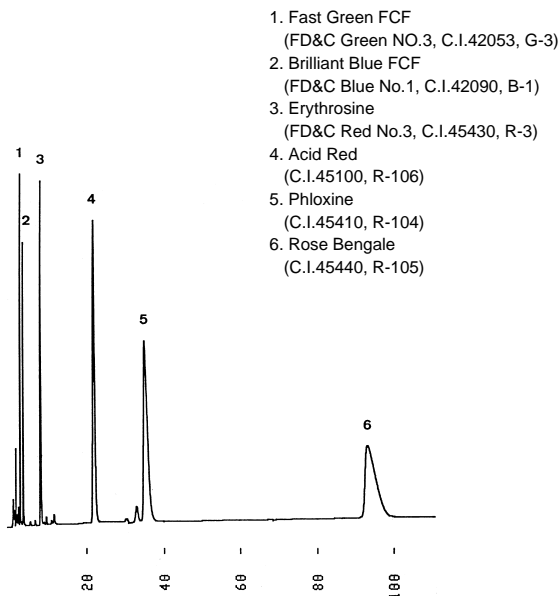


(M910427A)

Column : YMC-Pack ODS-A (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : A) 10mM NH₄H₂PO₄ - (NH₄)₂HPO₄ (pH 6.0)/methanol (90/10)
B) 10mM NH₄H₂PO₄ - (NH₄)₂HPO₄ (pH 6.0)/methanol (20/80)
0-100%B (0-40min, linear), 100%B (40-60min)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.32 AUFS
Injection : 100 μL (5 μg/mL)

タール色素

Color additives

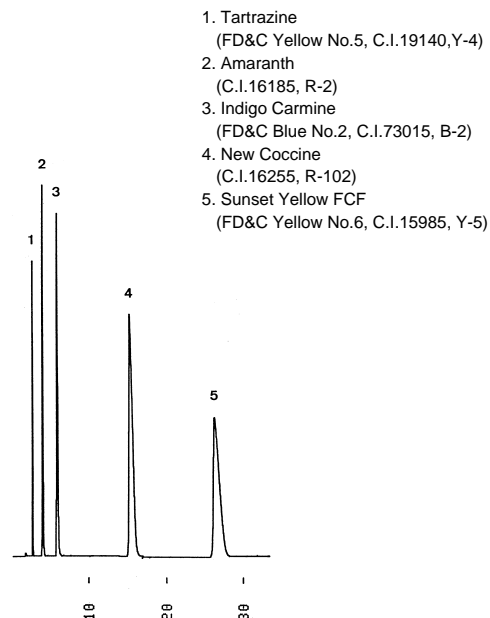


(M910430C)

Column : YMC-Pack ODS-A (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/10mM CH₃COONH₄ (25/75)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.08 AUFS
Injection : 10 μL (35 ~ 140 μg/mL)

タール色素

Color additives

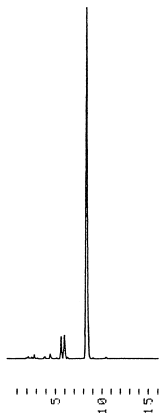


(M910430A)

Column : YMC-Pack ODS-A (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/10mM CH₃COONH₄ (8/92)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.16 AUFS
Injection : 5 μL (25 ~ 200 μg/mL)

水溶性アナー Annatto extract

1. Annatto pigment

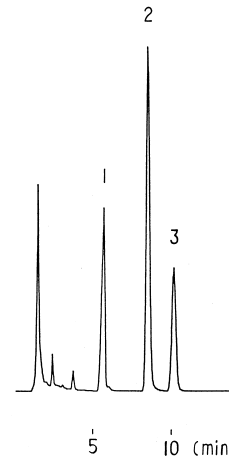


(M910430E)

Column : YMC-Pack ODS-AM (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (65/34/1)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : VIS at 454 nm, 0.16 AUFS
Injection : 5 μL (2 mg/mL)
Sample : Annatto pigment

市販炭酸飲料中のアスパルテーム Aspartame in a soft drink

1. Benzoic acid
2. Caffeine
3. Aspartame

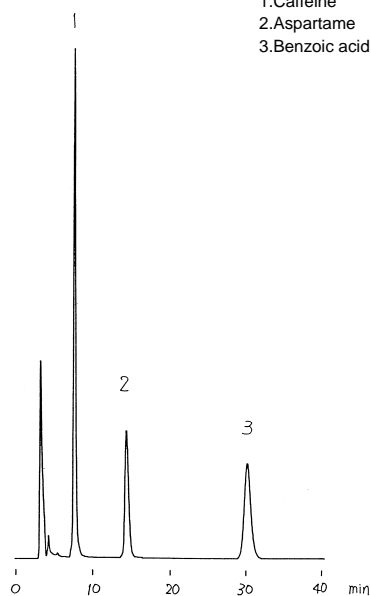


(T910123)

Column : YMC-Pack Ph (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 50mM KH₂PO₄/acetonitrile/methanol (84/3/13)
Flow rate : 1.5 mL/min
Temperature : 30
Detection : UV at 214 nm, 0.64 AUFS
Injection : 10 μL

市販炭酸飲料中のアスパルテーム Aspartame in a soft drink

1. Caffeine
2. Aspartame
3. Benzoic acid

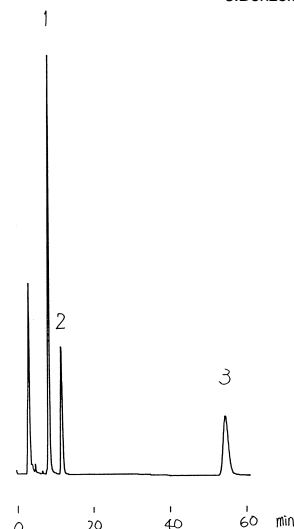


(H900710A)

Column : YMC-Pack ODS-A (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/TFA (15/85/0.05)
Flow rate : 0.5 mL/min
Temperature : 30
Detection : UV at 220 nm, 0.64 AUFS
Injection : 5 μL

市販炭酸飲料中のアスパルテーム Aspartame in a soft drink

1. Caffeine
2. Aspartame
3. Benzoic acid



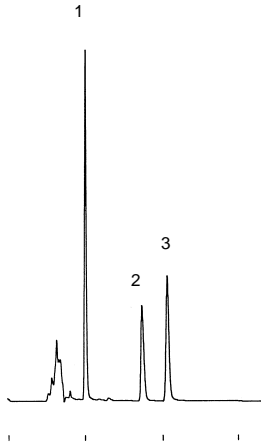
(H900710B)

Column : YMC-Pack PolymerC18
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/TFA (15/85/0.05)
Flow rate : 0.5 mL/min
Temperature : 30
Detection : UV at 220 nm, 0.64 AUFS
Injection : 5 μL

市販炭酸飲料中のアスパルテーム

Aspartame in a soft drink

1. Caffeine
2. Aspartame
3. Benzoic acid



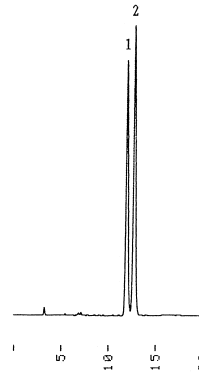
(H900710C)

Column : YMC-Pack CN (5 μ m, 12nm)
 250 x 4.6 mm I.D.
 Eluent : acetonitrile/water/TFA (15/85/0.05)
 Flow rate : 0.5 mL/min
 Temperature : 30
 Detection : UV at 220 nm, 0.64 AUFS
 Injection : 5 μ L

ステビオサイドとレバウディオサイドA

Stevioside and rebaudioside A

1. Stevioside
2. Rebaudioside A

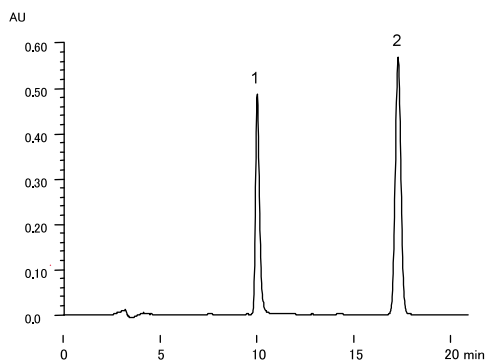
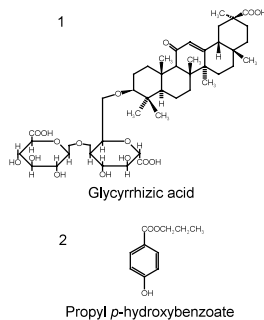


(G900727B)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
 150 x 6.0 mm I.D.
 Eluent : acetonitrile/water (35/65)
 Flow rate : 0.5 mL/min
 Temperature : 30
 Detection : UV at 205 nm, 0.32 AUFS
 Injection : 7 μ L

グリチルリチン酸

Glycyrrhizic acid



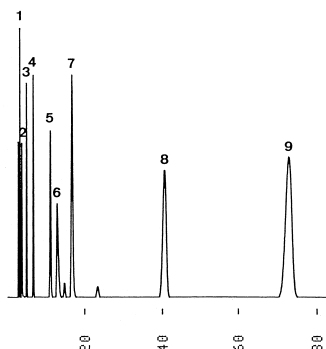
(F040622C)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
 150 x 4.6 mm I.D.
 Eluent : acetonitrile/water/5M acetic acid (400/560/40)
 Flow rate : 0.5 mL/min
 Temperature : 20
 Detection : UV at 254 nm
 Injection : 20 μ L (0.05 ~ 0.25 mg/mL)

(日本薬局方第14改正記載条件)

アルカロイド
Alkaloids

1. Hordenine sulfate
2. Pilocarpine chloride
3. Scopolamine bromide
4. Atropine sulfate
5. Cinchonine
6. Sparteine sulfate
7. Quinine
8. Papaverine chloride
9. Narcotine chloride

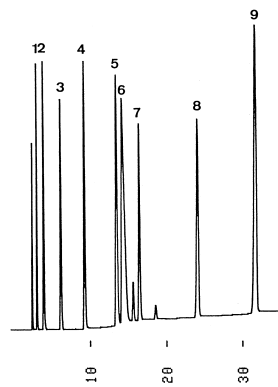


(G910523J)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/20mM KH₂PO₄ (20/80)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 210 nm, 0.16 AUFS
Injection : 5 μ L (0.05 ~ 2.19 mg/mL)

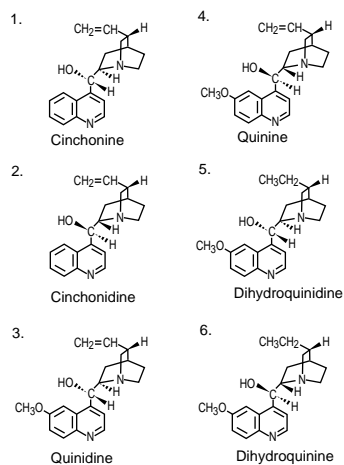
アルカロイド
Alkaloids

1. Hordenine sulfate
2. Pilocarpine chloride
3. Scopolamine bromide
4. Atropine sulfate
5. Cinchonine
6. Sparteine sulfate
7. Quinine
8. Papaverine chloride
9. Narcotine chloride



(G910523K)

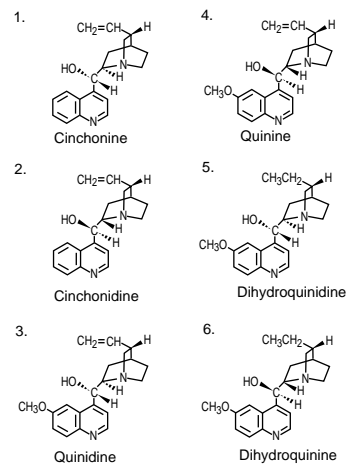
Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 \times 6.0 mm I.D.
Eluent : A) acetonitrile/20mM KH₂PO₄ (17/83)
B) acetonitrile/20mM KH₂PO₄ (40/60)
0-100%B (0-30min, linear), 100%B (30-40min)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 210 nm, 0.16 AUFS
Injection : 5 μ L (0.03 ~ 2.19 mg/mL)

アルカロイド
Alkaloids

0 10 20 min

(J020828B)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : methanol/20mM KH₂PO₄ (35/65)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 235 nm, 0.08 AUFS
Injection : 10 μ L (0.01 ~ 0.03 mg/mL)

アルカロイド - 酢酸緩衝液
Alkaloids - acetate buffer

0 10 20 min

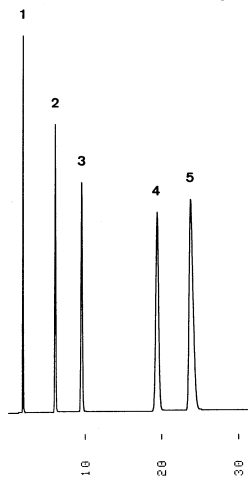
(J021010D)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : 20mM CH₃COOH-CH₃COONH₄ (pH4.9)/methanol (65/35)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 235 nm, 0.08 AUFS
Injection : 10 μ L (0.01 ~ 0.03 mg/mL)

プリンアルカロイド

Purine alkaloids

1. Trigonerline
2. Theobromine
3. Theophylline
4. Caffeine
5. Phenol



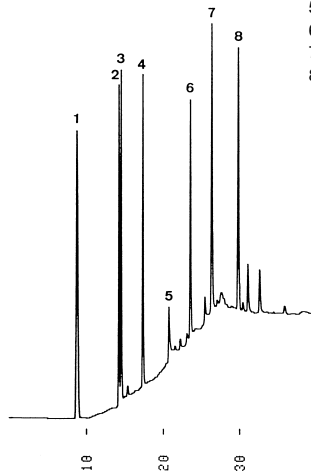
(M910612C)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
 150 \times 4.6 mm I.D.
 Eluent : acetonitrile/water (8/92)
 Flow rate : 1.0 mL/min
 Temperature : 20
 Detection : UV at 254 nm, 0.32 AUFS
 Injection : 5 μ L (0.3 ~ 4.5 mg/mL)

生薬成分 (配糖体)

Crude drugs(Glycosides)

- 1.Arbutin
- 2.Salicin
- 3.Esculine
- 4.G-Strophanthin (Ouabain)
- 5.Baicalin
- 6.Barbaloin
- 7.Glycyrrhizin
- 8.Digitoxin



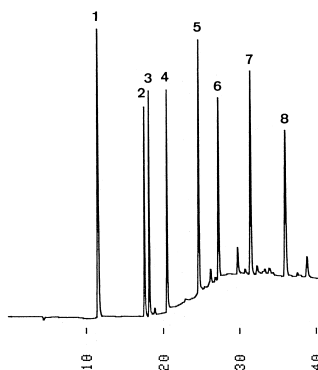
(G910618B)

Column : YMC-Pack ODS-A (5 μ m, 30nm)
 250 \times 6.0 mm I.D.
 Eluent : A)methanol/20mM NH₄H₂PO₄ (5/95)
 B)methanol/20mM NH₄H₂PO₄ (80/20)
 0-100%B (0-20min, linear), 100%B (20-40min)
 Flow rate : 1.0 mL/min
 Temperature : 30
 Detection : UV at 250 nm, 0.04 AUFS
 Injection : 20 μ L (0.01 ~ 0.49 mg/mL)

生薬成分 (配糖体)

Crude drugs(Glycosides)

- 1.Arbutin
- 2.Salicin
- 3.Esculine
- 4.G-Strophanthin (Ouabain)
- 5.Baicalin
- 6.Barbaloin
- 7.Glycyrrhizin
- 8.Digitoxin



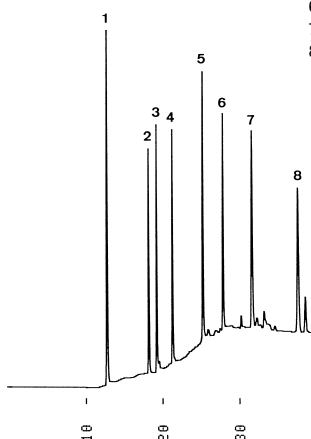
(G910607D)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
 250 \times 4.6 mm I.D.
 Eluent : A)methanol/20mM NH₄H₂PO₄ (5/95)
 B)methanol/20mM NH₄H₂PO₄ (80/20)
 0-100%B (0-20min, linear), 100%B (20-40min)
 Flow rate : 0.6 mL/min
 Temperature : 30
 Detection : UV at 250 nm, 0.08 AUFS
 Injection : 18 μ L (0.01 ~ 0.49 mg/mL)

生薬成分 (配糖体)

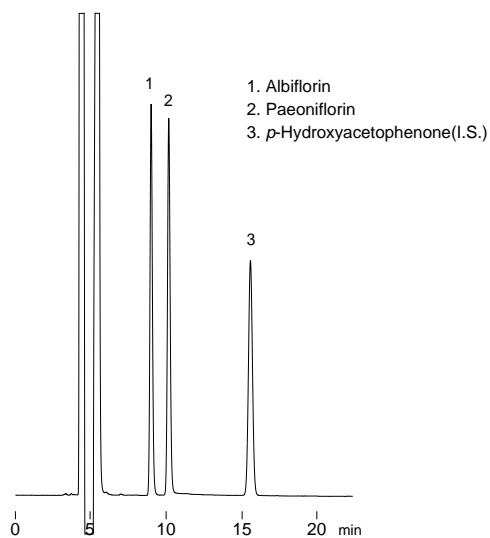
Crude drugs(Glycosides)

- 1.Arbutin
- 2.Salicin
- 3.Esculine
- 4.G-Strophanthin (Ouabain)
- 5.Baicalin
- 6.Barbaloin
- 7.Glycyrrhizin
- 8.Digitoxin



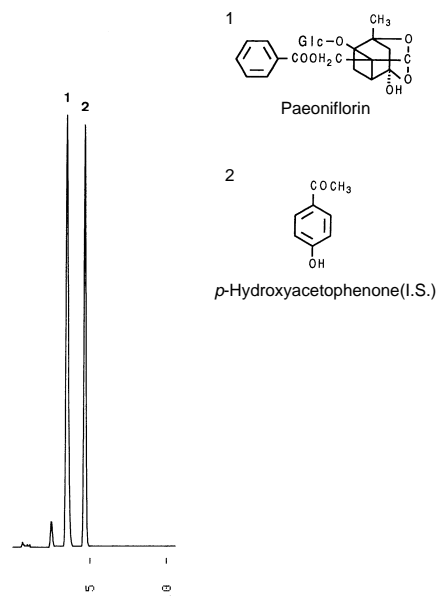
(G910607E)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
 250 \times 4.6 mm I.D.
 Eluent : A)methanol/20mM NH₄H₂PO₄ (5/95)
 B)methanol/20mM NH₄H₂PO₄ (80/20)
 0-100%B (0-20min, linear), 100%B (20-40min)
 Flow rate : 0.6 mL/min
 Temperature : 30
 Detection : UV at 250 nm, 0.08 AUFS
 Injection : 18 μ L (0.01 ~ 0.49 mg/mL)

ペオニフロリン
Paeoniflorin

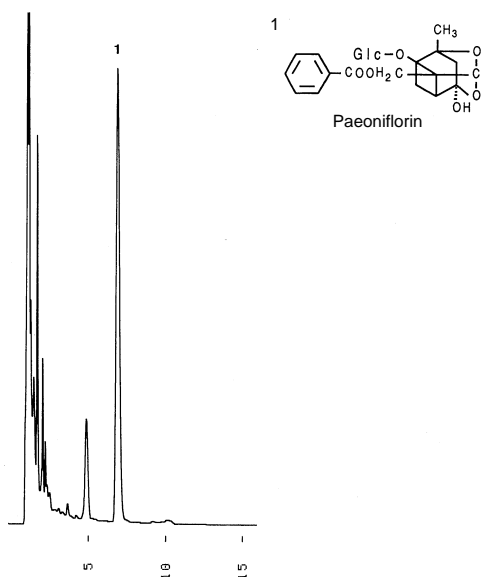
(A980818A)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (20/80/1)
Flow rate : 0.4 mL/min
Temperature : 25
Detection : UV at 230 nm, 0.16 AUFS
Injection : 10 μ L (48 ~ 56 μ g/mL)

ペオニフロリン
Paeoniflorin

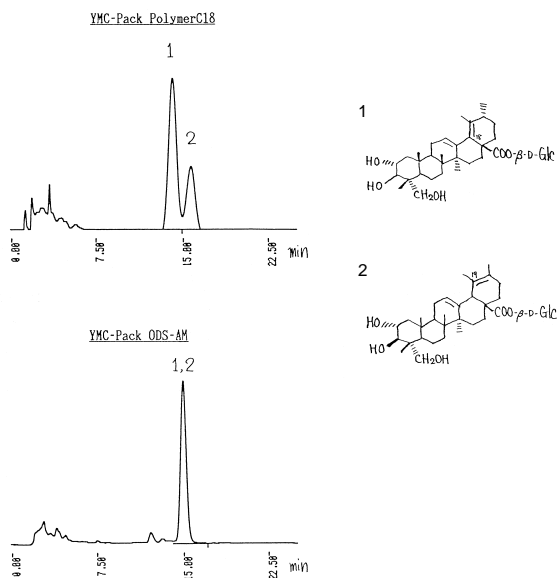
(O941121M)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
75 \times 4.6 mm I.D.
Eluent : THF/50mM (NH₄)₂HPO₄ (10/90)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.16 AUFS
Injection : 3 μ L (0.67, 0.33 mg/mL)

当帰芍薬散中のペオニフロリン
Paeoniflorin in Toki-shakuyaku-san

(O941121I)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : THF/50mM (NH₄)₂HPO₄ (10/90)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.16 AUFS
Injection : 3 μ L
Sample : water extract from Toki-shakuyaku-san

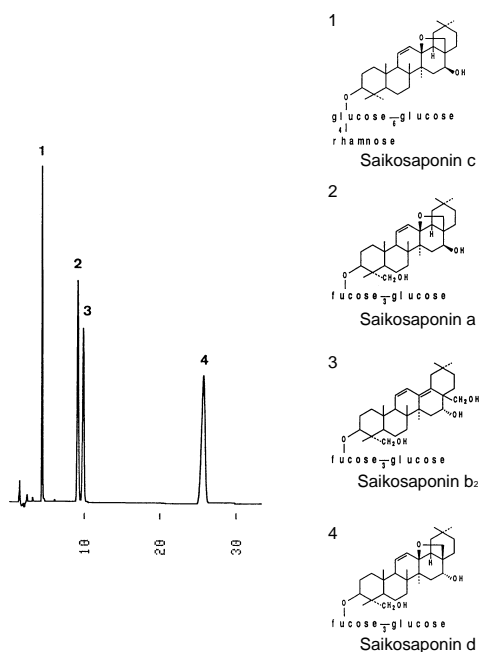
トリテルペン系サポニン
Saponins from roots of rubus suavissimus S. Lee

Courtesy of Dr.Ohtani, Hiroshima University, Japan

(Y910123)

Column : YMC-Pack PolymerC18 and YMC-Pack ODS-AM (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : methanol/water (45/55) for PolymerC18
methanol/water (50/50) for ODS-AM
Flow rate : 0.8 mL/min
Temperature : 50
Detection : UV at 210 nm, 0.32 AUFS
Sample : 1) -D-Glucopyranosyl 2 ,3 ,23-trihydroxyurs-
12,18-dien-28-oate
2) -D-Glucopyranosyl 2 ,3 ,23-trihydroxyurs-
12,19-dien-28-oate

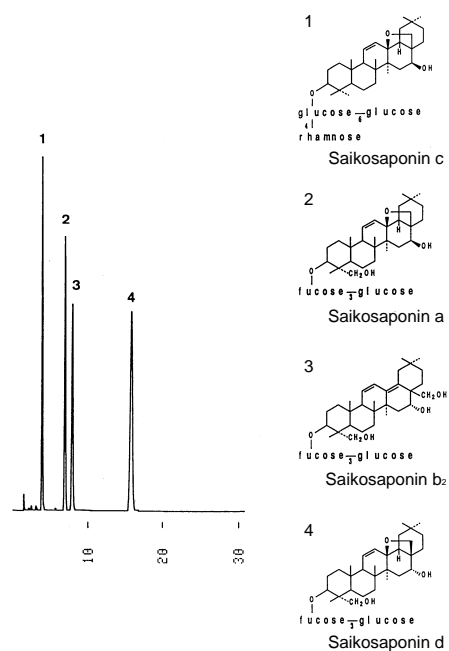
サイコサポニン Saikosaponins



(S931210C)

Column : J'sphere ODS-M80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (38/62)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.26 AUFS
Injection : 8 μL (0.5 ~ 0.75 mg/mL)

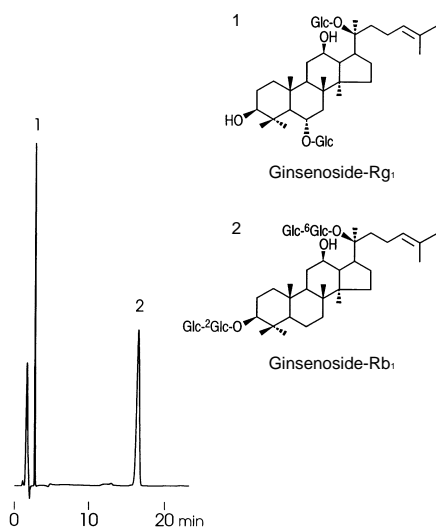
サイコサポニン Saikosaponins



(S931210D)

Column : J'sphere ODS-L80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (38/62)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.26 AUFS
Injection : 8 μL (0.5 ~ 0.75 mg/mL)

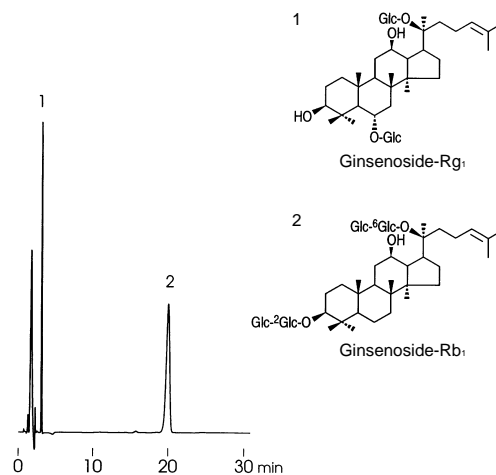
ジンセノサイド Ginsenosides



(A971118B)

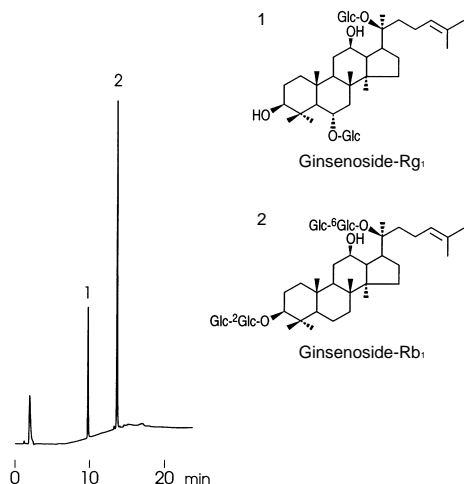
Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (30/70)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 203 nm, 0.16 AUFS
Injection : 10 μL (0.125, 0.5 mg/mL)

ジンセノサイド Ginsenosides



(A971120C)

Column : YMC-Pack ODS-AQ (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (30/70)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 203 nm, 0.16 AUFS
Injection : 10 μL (0.125, 0.5 mg/mL)

ジンセノサイド
Ginsenosides

(A971121D)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 3.0 mm I.D.

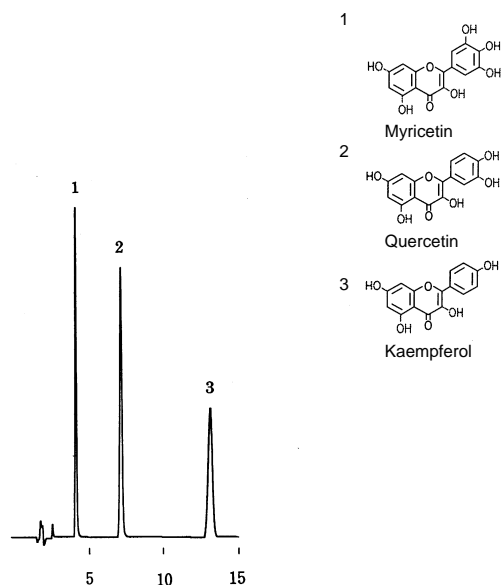
Eluent : A)acetonitrile/water (20/80)
B)acetonitrile/water (40/60)
0-100%B (0-10min), 100%B (10-20min)

Flow rate : 0.4 mL/min

Temperature : 37

Detection : UV at 203 nm, 0.32 AUFS

Injection : 4 μ L (0.125, 0.5 mg/mL)

フラボノイド
Flavonoids

(D960722A)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.

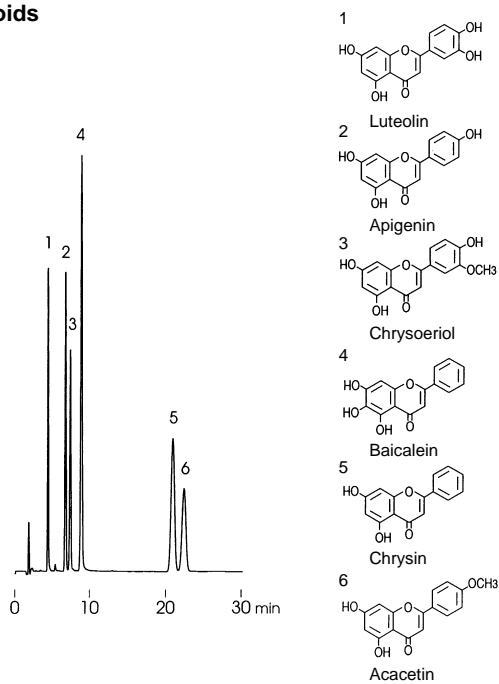
Eluent : acetonitrile/10mM H₃PO₄ (30/70)

Flow rate : 1.0 mL/min

Temperature : 40

Detection : UV at 260 nm, 0.064 AUFS

Injection : 2 μ L (0.05 mg/mL)

フラボノイド
Flavonoids

(S961107C)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.

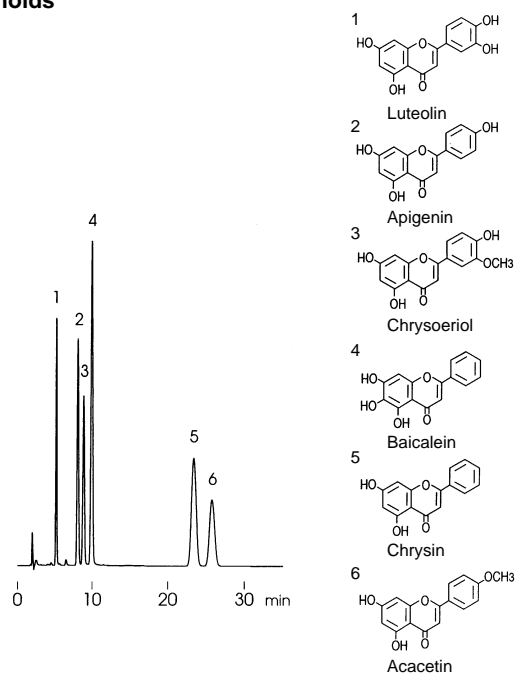
Eluent : acetonitrile/10mM H₃PO₄ (35/65)

Flow rate : 1.0 mL/min

Temperature : 37

Detection : UV at 280 nm, 0.13 AUFS

Injection : 5 μ L (0.05 mg/mL)

フラボノイド
Flavonoids

(S961111B)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
150 × 4.6 mm I.D.

Eluent : acetonitrile/10mM H₃PO₄ (35/65)

Flow rate : 1.0 mL/min

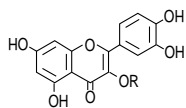
Temperature : 37

Detection : UV at 280 nm, 0.13 AUFS

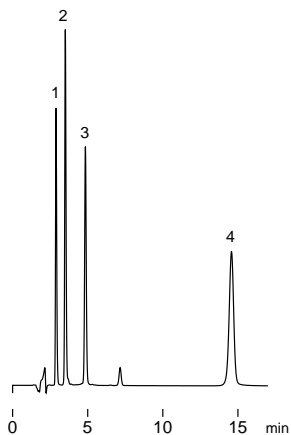
Injection : 5 μ L (0.05 mg/mL)

クエルセチンとその配糖体

Quercetin and its glycosides



1. Rutin R=rutinose
2. Isoquercitrin R=glucose
3. Quercitrin R=rhamnose
4. Quercetin R=H

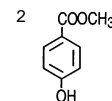
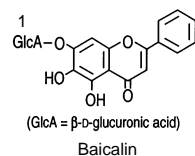
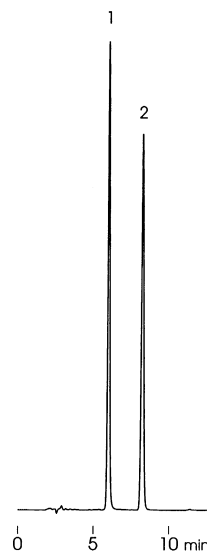


(J020828F)

Column : Hydrosphere C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/10mM H₃PO₄ (25/75)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 260 nm, 0.32 AUFS
Injection : 10 μL (0.05 mg/mL)

バイカリン

Baicalin

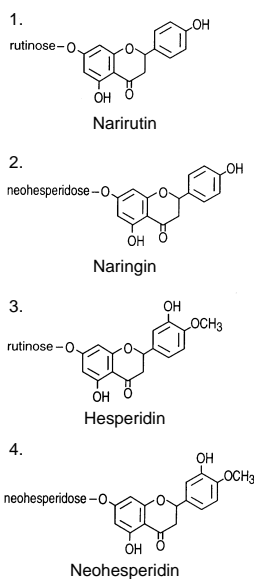
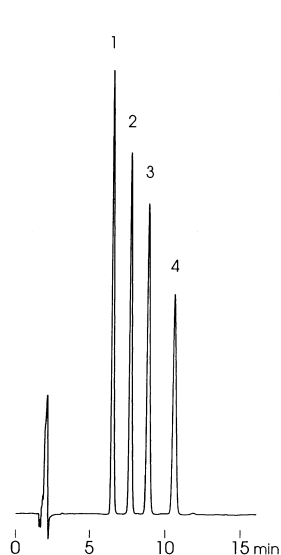
Methyl *p*-hydroxybenzoate

(S961105C)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
50 × 4.6 mm I.D.
Eluent : acetonitrile/10mM H₃PO₄ (30/70)
Flow rate : 0.7 mL/min
Temperature : 37
Detection : UV at 280 nm, 0.064 AUFS
Injection : 10 μL (0.01, 0.02 mg/mL)
(日本薬局方第13改正参照)

フラバノン配糖体

Flavanone glycosides

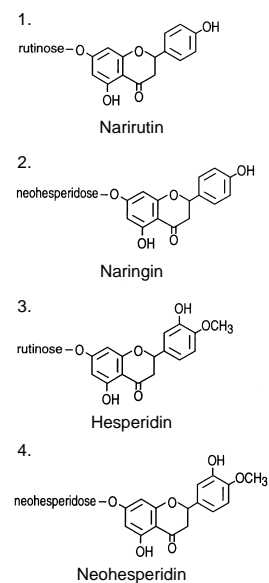
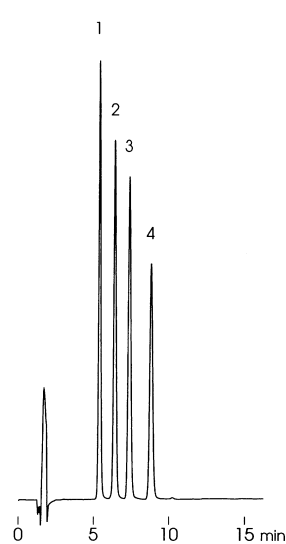


(A970430A)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/10mM H₃PO₄ (20/80)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 280 nm, 0.04 AUFS
Injection : 7 μL (0.025 mg/mL)

フラバノン配糖体

Flavanone glycosides

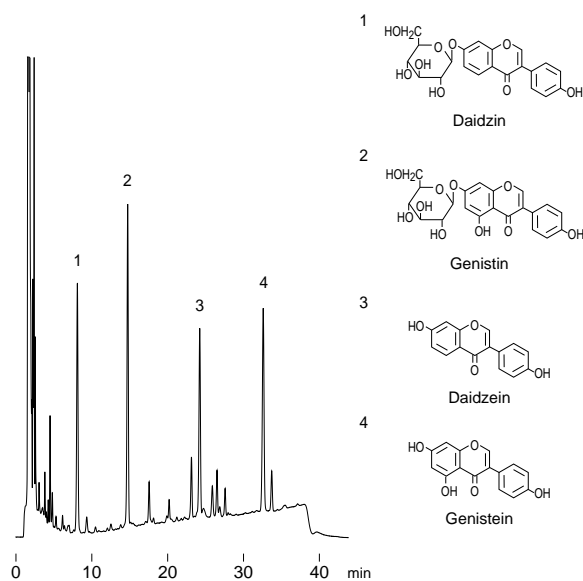


(A970506A)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/10mM H₃PO₄ (20/80)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 280 nm, 0.04 AUFS
Injection : 7 μL (0.025 mg/mL)

市販みそ中のイソフラボン

Isoflavones from miso, fermented soybean paste

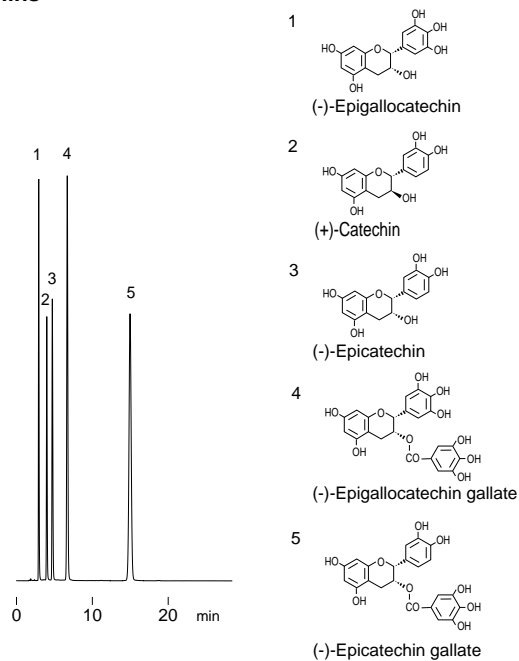


(F001025B)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : A) water/acetic acid (100/1)
B) acetonitrile/water/acetic acid (50/50/1)
30%B(0-5min), 30-70%B(5-35min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.08AUFS
Injection : 7 μ L
Sample : methanol extract of miso

カテキン類

Catechins

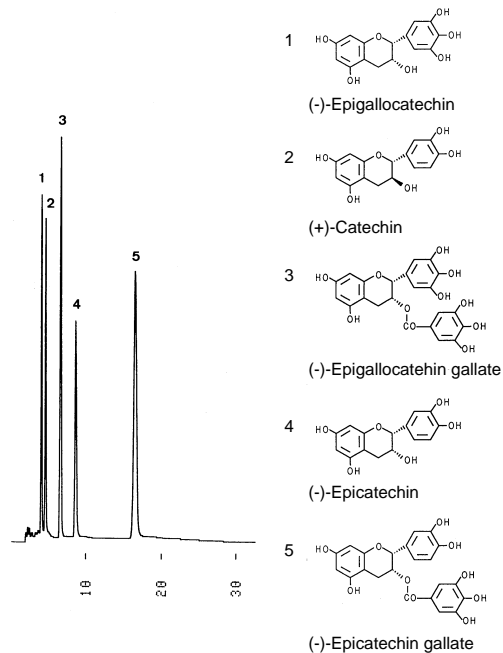


(F000828A)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/ethyl acetate/water/TFA (9/3/88/0.1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 280 nm, 0.32 AUFS
Injection : 7 μ L (0.2 ~ 0.8 mg/mL)

カテキン類

Catechins

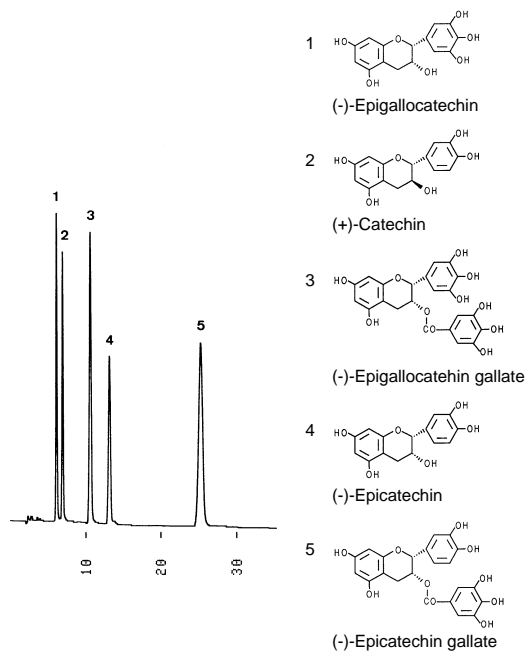


(S940124A)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : 20mM KH_2PO_4 - H_3PO_4 (pH 2.4)/methanol (75/25)
Flow rate : 0.8 mL/min
Temperature : 37
Detection : UV at 280 nm, 0.13 AUFS
Injection : 8 μ L (0.1 ~ 0.4 mg/mL)

カテキン類

Catechins

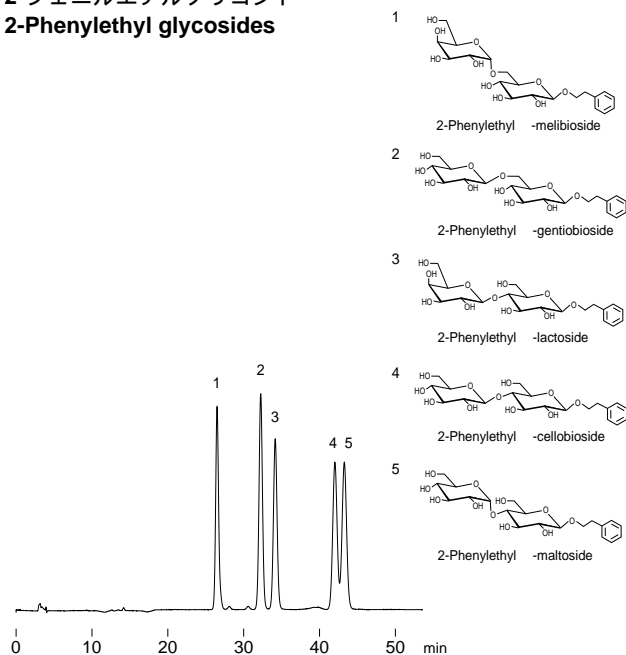


(S940122D)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : 20mM KH_2PO_4 - H_3PO_4 (pH 2.4)/methanol (75/25)
Flow rate : 0.8 mL/min
Temperature : 37
Detection : UV at 280 nm, 0.13 AUFS
Injection : 8 μ L (0.1 ~ 0.4 mg/mL)

2-フェニルエチルグリコシド

2-Phenylethyl glycosides



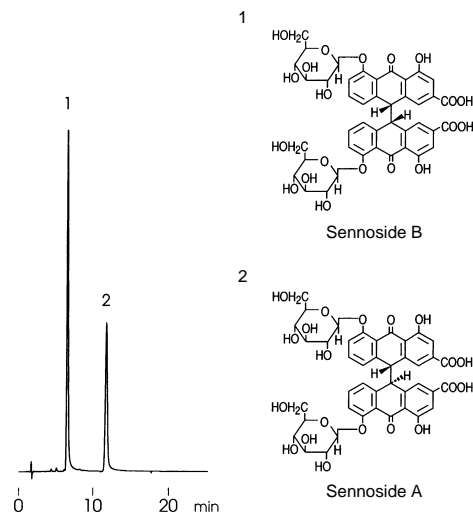
(F000911A)

Courtesy of Dr.K.Sakata, Institute for Chemical Research Kyoto University, Japan

Column : Hydrosphere C18 (5 μ m, 12nm)
 250 \times 4.6 mm I.D.
 Eluent : acetonitrile/methanol/water (8/4/88)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 210 nm, 0.064 AUFS
 Injection : 5 μ L (0.2 mg/mL)

センノシド

Sennosides

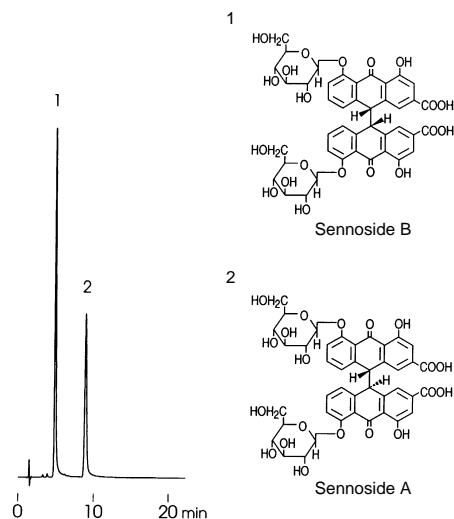


(A961126C)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
 150 \times 4.6 mm I.D.
 Eluent : methanol/water/acetic acid (30/65/5)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 340 nm, 0.16 AUFS
 Injection : 10 μ L (0.1 mg/mL)

センノシド

Sennosides

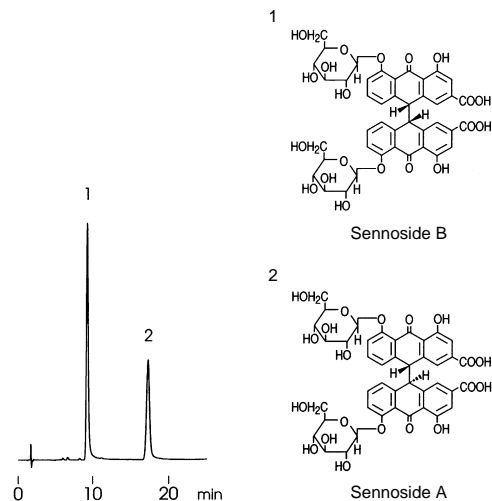


(A961126B)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
 150 \times 4.6 mm I.D.
 Eluent : methanol/water/acetic acid (30/65/5)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 340 nm, 0.16 AUFS
 Injection : 10 μ L (0.1 mg/mL)

センノシド

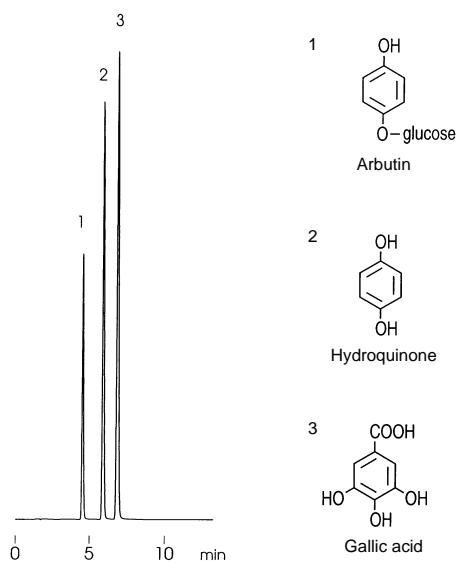
Sennosides



(A961126D)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
 150 \times 4.6 mm I.D.
 Eluent : methanol/water/acetic acid (30/65/5)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 340 nm, 0.16 AUFS
 Injection : 10 μ L (0.1 mg/mL)

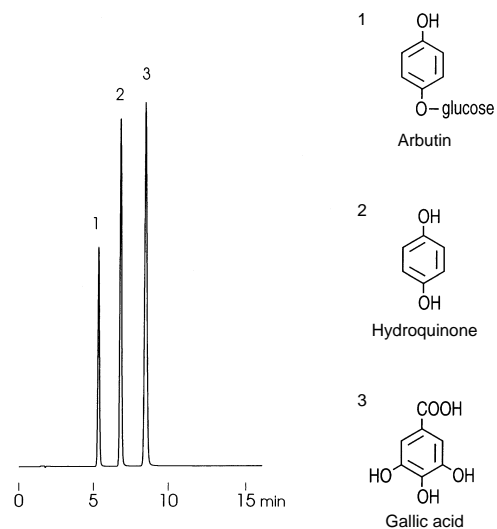
アルブチンおよび関連化合物
Arbutin and related compounds



(A970514D)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/10mM H₃PO₄ (5/95)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 280 nm, 0.32 AUFS
Injection : 5 μ L (0.2 ~ 0.5 mg/mL)

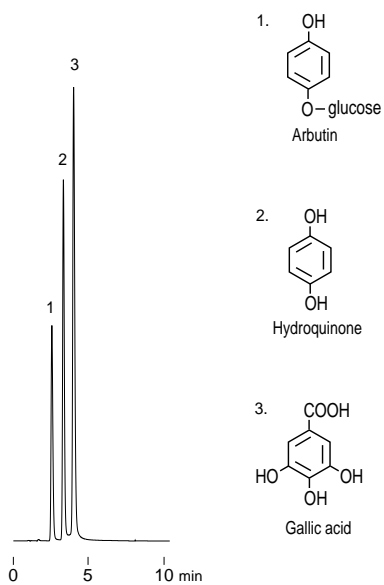
アルブチンおよび関連化合物
Arbutin and related compounds



(A970514B)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/10mM H₃PO₄ (5/95)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 280 nm, 0.32 AUFS
Injection : 5 μ L (0.2 ~ 0.5 mg/mL)

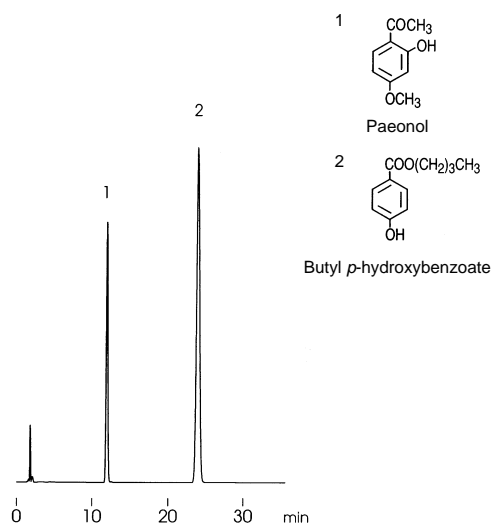
アルブチンおよび関連化合物
Arbutin and related compounds



(A980831L)

Column : YMC-Pack Pro C18 (3 μ m, 12nm)
75 × 2.0 mm I.D.
Eluent : methanol / water / TFA (5/95/0.05)
Flow rate : 0.2 mL/min
Temperature : 30
Detection : UV at 280 nm, 0.16 AUFS
Injection : 1 μ L (0.2 ~ 0.5 mg/mL)

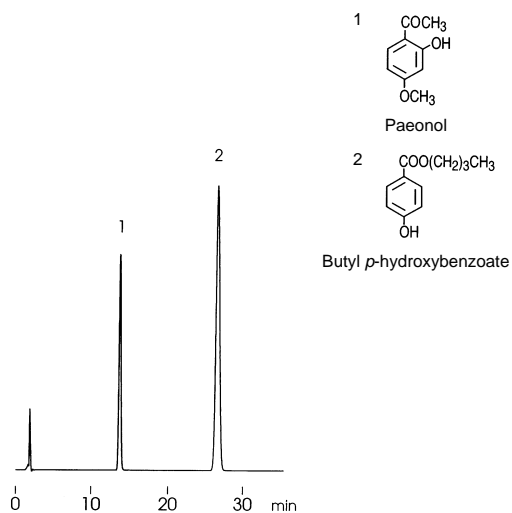
ペオノール
Paeonol



(S971106D)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (35/65/2)
Flow rate : 1.0 mL/min
Temperature : ambient (22)
Detection : UV at 274 nm, 0.26 AUFS
Injection : 10 μ L (0.04, 0.2 mg/mL)

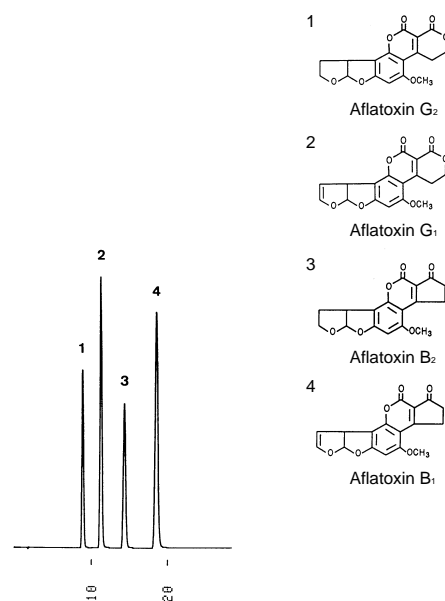
(日本薬局方第13改正記載条件)

ペオノール
Paeonol

(S971107A)

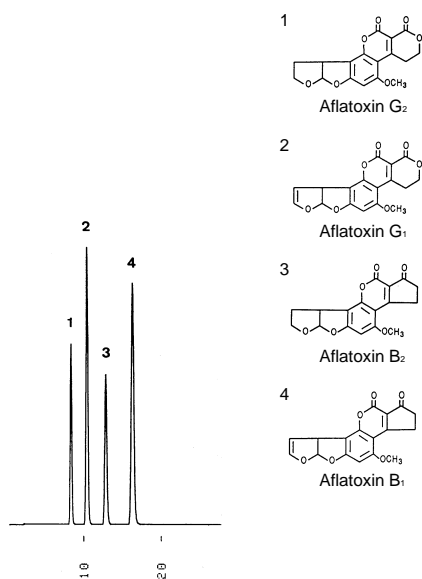
Column : YMC-Pack ODS-AQ (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (35/65/2)
Flow rate : 1.0 mL/min
Temperature : ambient (22 °C)
Detection : UV at 274 nm, 0.26 AUFS
Injection : 10 μL (0.04, 0.2 mg/mL)

(日本薬局方第13改正記載条件)

アフラトキシン
Aflatoxins

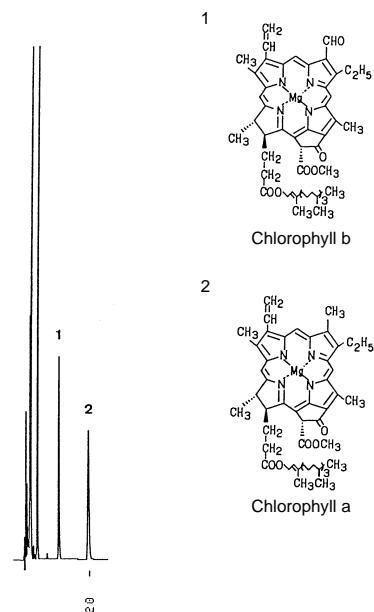
(K931124B)

Column : J'sphere ODS-M80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : methanol/water (40/60)
Flow rate : 1.0 mL/min
Temperature : 37 °C
Detection : UV at 365 nm, 0.04 AUFS
Injection : 10 μL (7 ~ 10 ppm)

アフラトキシン
Aflatoxins

(K931125A)

Column : J'sphere ODS-L80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : methanol/water (40/60)
Flow rate : 1.0 mL/min
Temperature : 37 °C
Detection : UV at 365 nm, 0.04 AUFS
Injection : 10 μL (7 ~ 10 ppm)

クロロフィル
Chlorophyll a and b

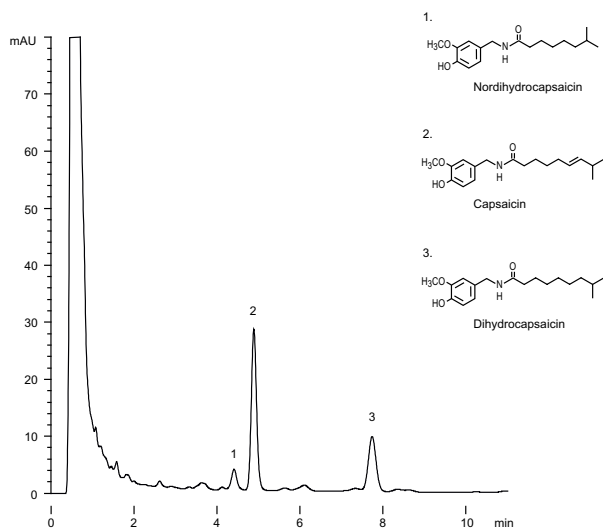
Courtesy of Dr. Toyooki Aoki, University of Osaka Pref.

(K940228A)

Column : YMC-Pack ODS-A (5 μm, 12nm)
150 × 6.0 mm I.D.
Eluent : methanol
Flow rate : 1.0 mL/min
Temperature : ambient
Detection : VIS at 450 nm, 1 AUFS
Injection : 100 μL
Sample : extract of Spinacia with acetone/water (90/10)

トウガラシ中のカプサイシン類

Capsaicinoids from red pepper

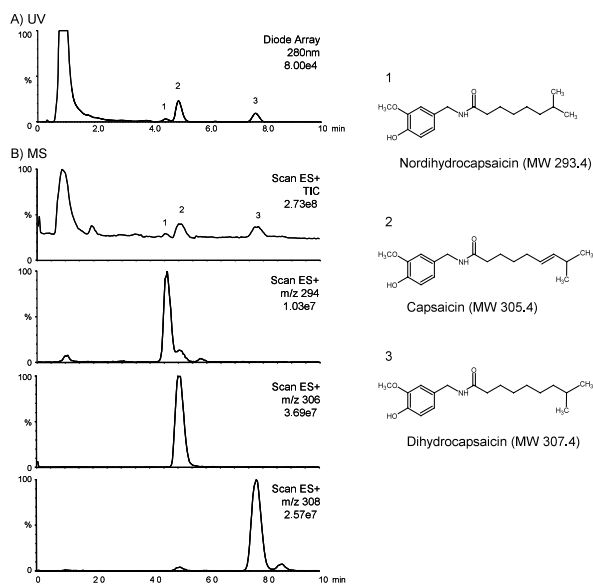


(F040728C)

Column : YMC-Pack Pro C18 RS (3 μ m, 8nm)
 50 \times 4.6 mm I.D.
 Eluent : methanol/water/acetic acid (60/40/1)
 Flow rate : 1.0 mL/min
 Temperature : 40
 Detection : UV at 280 nm
 Injection : 1 μ L (1 g/3 mL)
 Sample : methanol extract of a commercial cayenne pepper

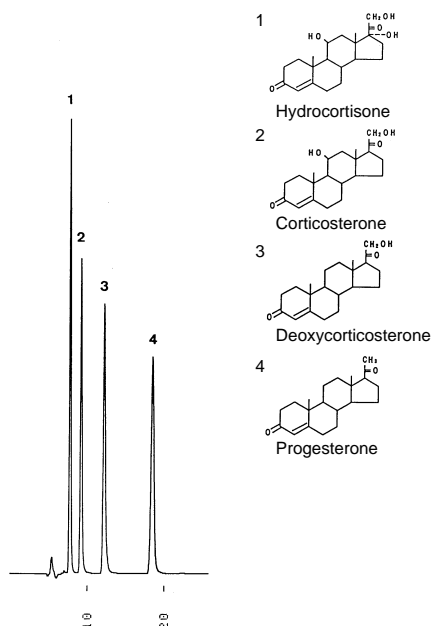
トウガラシ中のカプサイシン類 - LC/MS

Capsaicinoids from red pepper - LC/MS



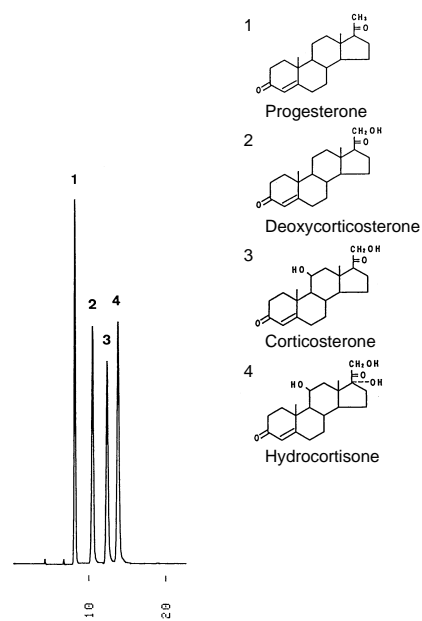
(J040910A)

Column : YMC-Pack Pro C18 RS (3 μ m, 8nm)
 50 \times 2.0 mm I.D.
 Eluent : methanol/water/acetic acid (60/40/0.1)
 Flow rate : 0.2 mL/min
 Temperature : 40
 Detection : A) UV at 280 nm
 B) ESI positive-mode
 Injection : 1 μ L (1 g/3 mL)
 Sample : methanol extract of a commercial cayenne pepper

ステロイド
Steroids

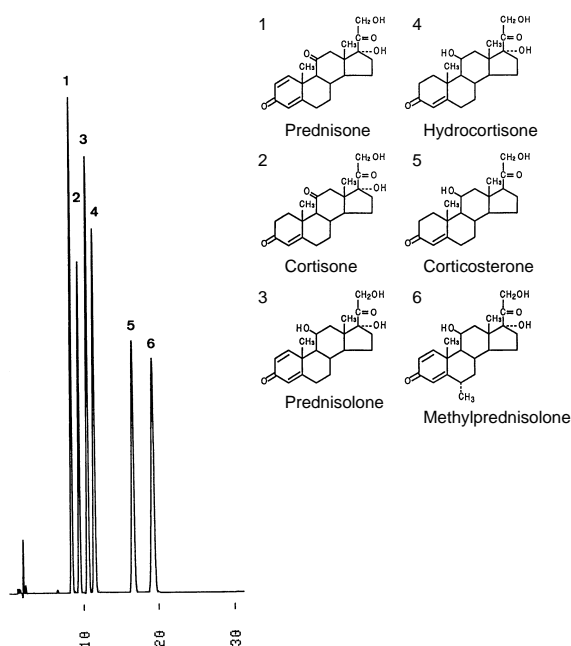
(S930322B)

Column : YMC-Pack CN (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : acetonitrile/water (40/60)
Flow rate : 0.6 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.32 AUFS
Injection : 3 μ L (0.25 mg/mL)

ステロイド
Steroids

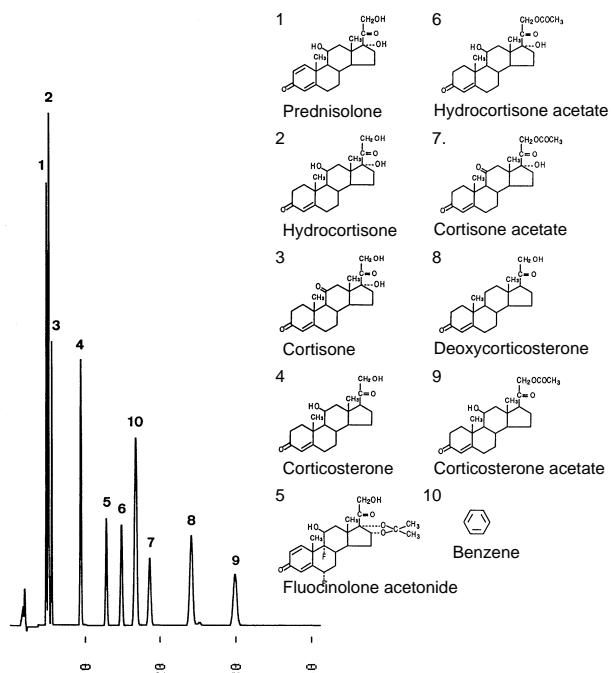
(S930319D)

Column : YMC-Pack CN (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : hexane/methanol/dichloromethane (75/20/5)
Flow rate : 0.6 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.32 AUFS
Injection : 3 μ L (0.25 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

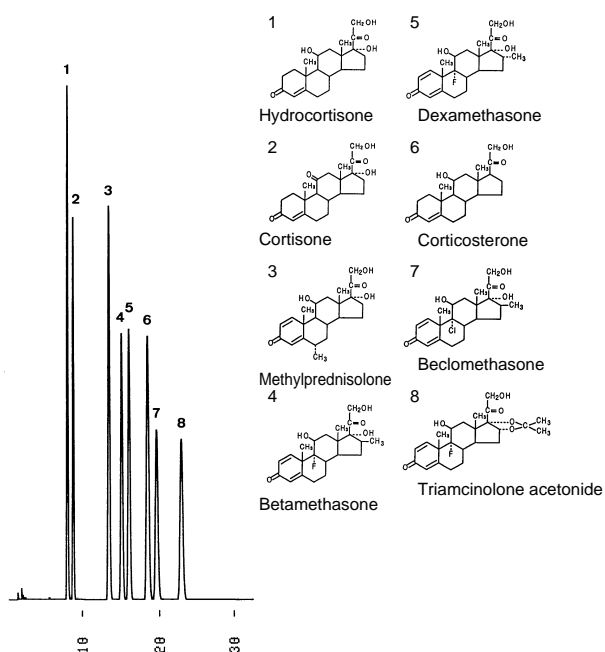
(S940308B)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : THF/water (20/80)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 8 μ L (0.1 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

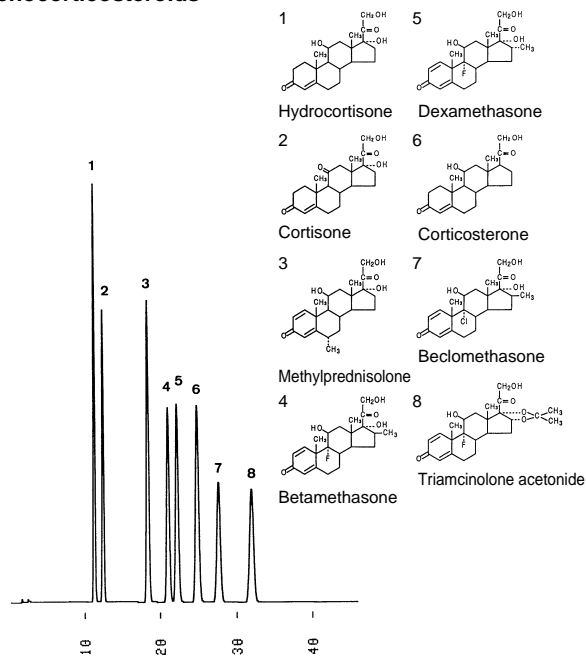
(S940222C)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/water (35/65)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 7 μ L (0.07 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

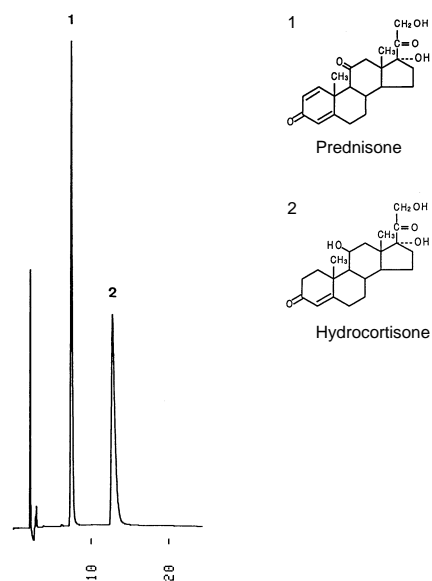
(S940310E)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/water (27/73)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 10 μ L (0.08 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

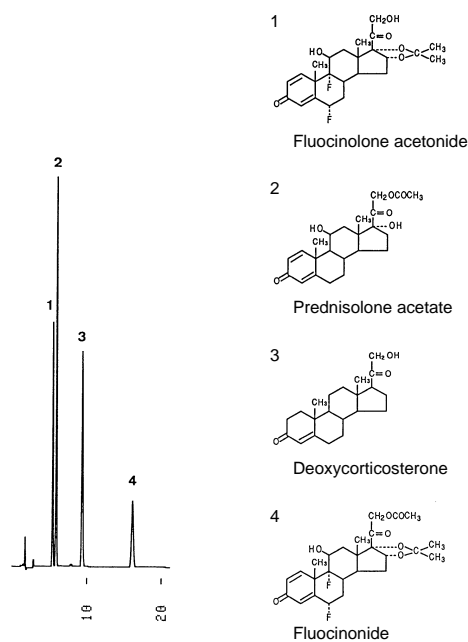
(S940310F)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/water (27/73)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 10 μ L (0.08 mg/mL)

ヒドロコルチゾンとプレドニゾン
Hydrocortisone and prednisone

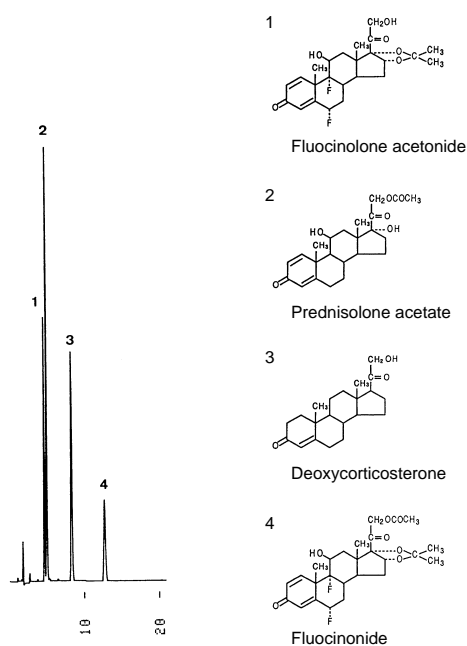
(K940530C)

Column : YMC-Pack SIL (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : chloroform/2-propanol/acetic acid (95/5/1)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 250 nm, 0.32 AUFS
Injection : 10 μ L (0.25 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

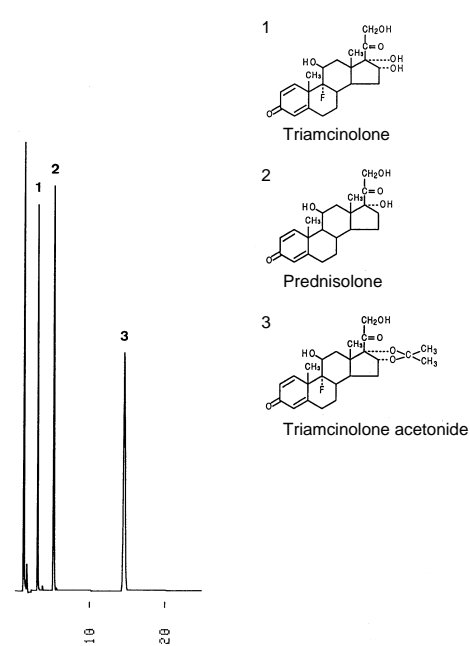
(O940408A)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/water (45/55)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 5 μ L (0.1 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

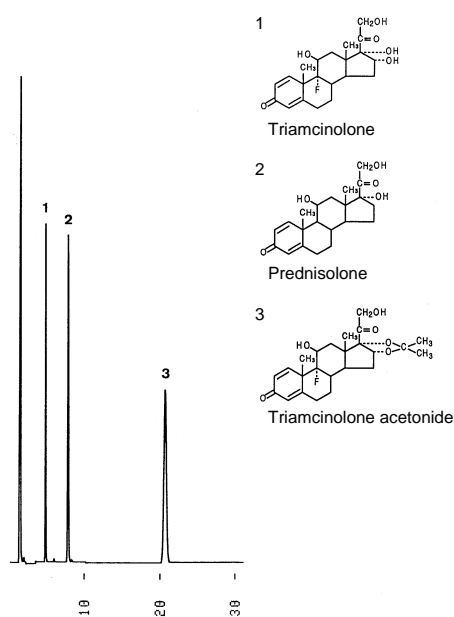
(O940408C)

Column : YMC-Pack ODS-A (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (45/55)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 5 μL (0.1 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

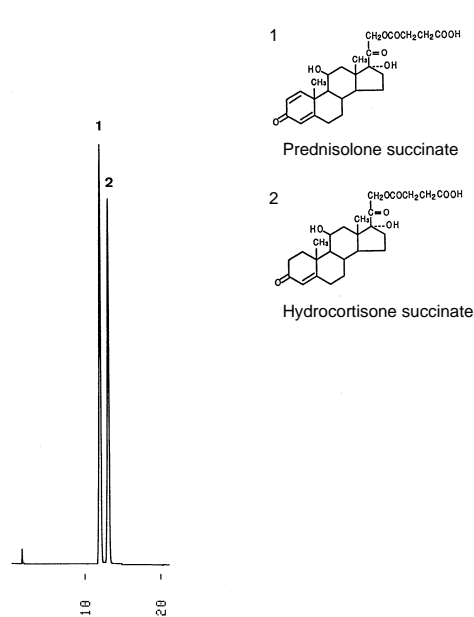
(S940420B)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (30/70)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 4 μL (0.1 ~ 0.2 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

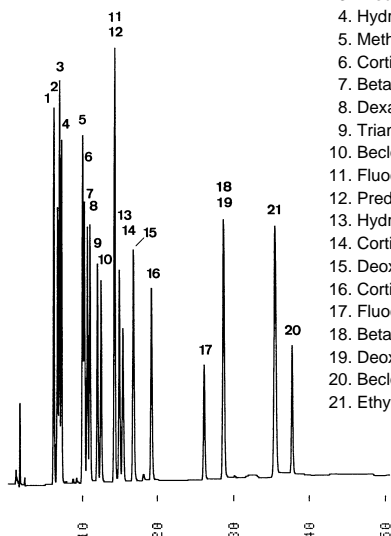
(S940420C)

Column : J'sphere ODS-M80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (30/70)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 4 μL (0.1 ~ 0.2 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

(S940414A)

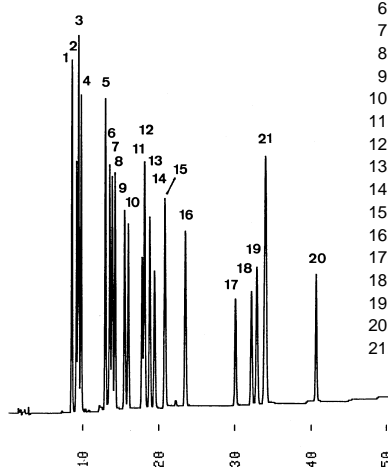
Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (30/70/1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.064 AUFS
Injection : 5 μL (0.1 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

1. Prednisone
2. Cortisone
3. Prednisolone
4. Hydrocortisone
5. Methylprednisolone
6. Corticosterone
7. Betamethasone
8. Dexamethasone
9. Triamcinolone acetonide
10. Beclomethasone
11. Flucinolone acetonide
12. Prednisolone acetate
13. Hydrocortisone acetate
14. Cortisone acetate
15. Deoxycorticosterone
16. Corticosterone acetate
17. Flucinonide
18. Betamethasone valerate
19. Deoxycorticosterone acetate
20. Beclomethasone dipropionate
21. Ethylbenzene

(S940303D)

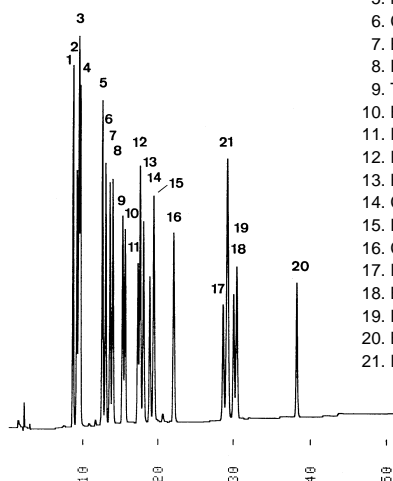
Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : A)acetonitrile/THF/water (15/10/75)
B)acetonitrile/water (75/25)
0-50%B (0-30min, linear), 50-100%B (30-50min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 10 μL (0.045 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

1. Prednisone
2. Cortisone
3. Prednisolone
4. Hydrocortisone
5. Methylprednisolone
6. Corticosterone
7. Betamethasone
8. Dexamethasone
9. Triamcinolone acetonide
10. Beclomethasone
11. Flucinolone acetonide
12. Prednisolone acetate
13. Hydrocortisone acetate
14. Cortisone acetate
15. Deoxycorticosterone
16. Corticosterone acetate
17. Flucinonide
18. Betamethasone valerate
19. Deoxycorticosterone acetate
20. Beclomethasone dipropionate
21. Ethylbenzene

(S940303B)

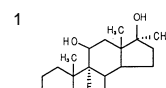
Column : J'sphere ODS-M80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : A)acetonitrile/THF/water (15/10/75)
B)acetonitrile/water (75/25)
0-50%B (0-30min, linear), 50-100%B (30-50min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 10 μL (0.045 mg/mL)

副腎皮質ステロイド
Adrenocorticosteroids

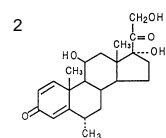
1. Prednisone
2. Cortisone
3. Prednisolone
4. Hydrocortisone
5. Methylprednisolone
6. Corticosterone
7. Betamethasone
8. Dexamethasone
9. Triamcinolone acetonide
10. Beclomethasone
11. Flucinolone acetonide
12. Prednisolone acetate
13. Hydrocortisone acetate
14. Cortisone acetate
15. Deoxycorticosterone
16. Corticosterone acetate
17. Flucinonide
18. Betamethasone valerate
19. Deoxycorticosterone acetate
20. Beclomethasone dipropionate
21. Ethylbenzene

(S940303C)

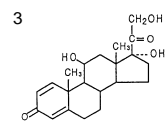
Column : J'sphere ODS-L80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : A)acetonitrile/THF/water (15/10/75)
B)acetonitrile/water (75/25)
0-50%B (0-30min, linear), 50-100%B (30-50min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 10 μL (0.045 mg/mL)

ステロイド
Steroids

Fluoxymesterone



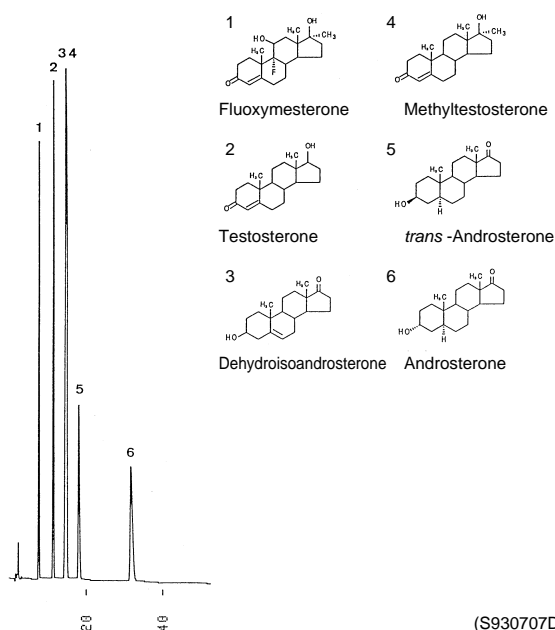
Methylprednisolone



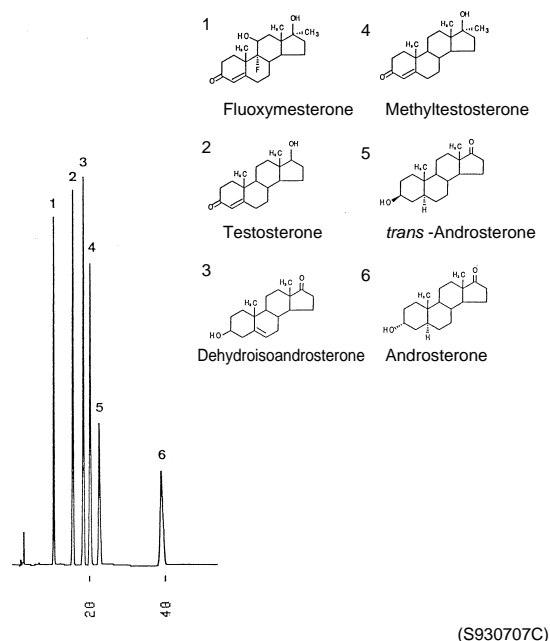
Prednisolone

(K940602B)

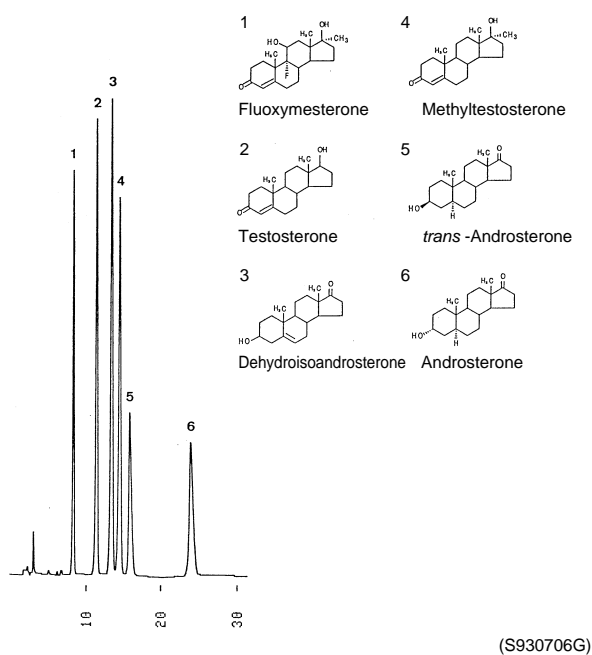
Column : YMC-Pack SIL-06 (5 μm, 6nm)
250 × 4.6 mm I.D.
Eluent : hexane/THF/acetic acid (60/40/1)
Flow rate : 1.5 mL/min
Temperature : 30
Detection : UV at 250 nm, 0.16 AUFS
Injection : 10 μL (0.25 mg/mL)

男性ホルモン
Androgens

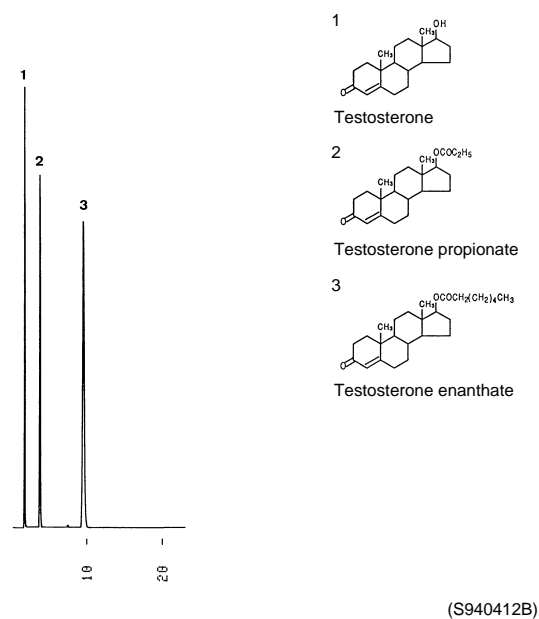
Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : methanol/acetonitrile/water (45/15/40)
Flow rate : 0.8 mL/min
Temperature : 30
Detection : UV at 210 nm, 0.064 AUFS
Injection : 10 μL (0.1 ~ 2.0 mg/mL)

男性ホルモン
Androgens

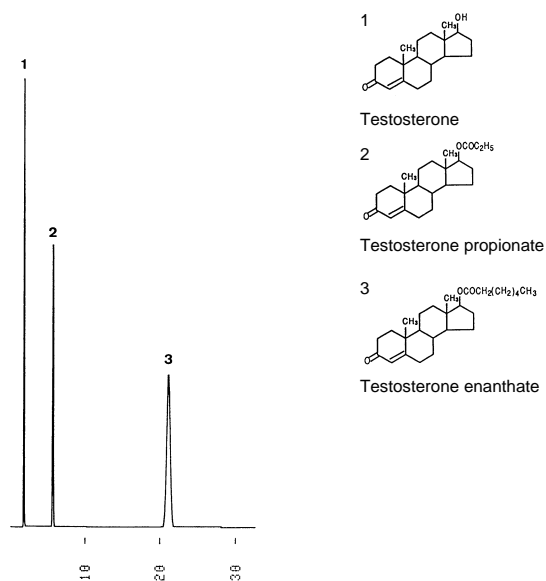
Column : J'sphere ODS-M80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : methanol/acetonitrile/water (45/15/40)
Flow rate : 0.8 mL/min
Temperature : 30
Detection : UV at 210 nm, 0.064 AUFS
Injection : 10 μL (0.1 ~ 2.0 mg/mL)

男性ホルモン
Androgens

Column : J'sphere ODS-L80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : methanol/acetonitrile/water (45/15/40)
Flow rate : 0.8 mL/min
Temperature : 30
Detection : UV at 210 nm, 0.064 AUFS
Injection : 10 μL (0.1 ~ 2.0 mg/mL)

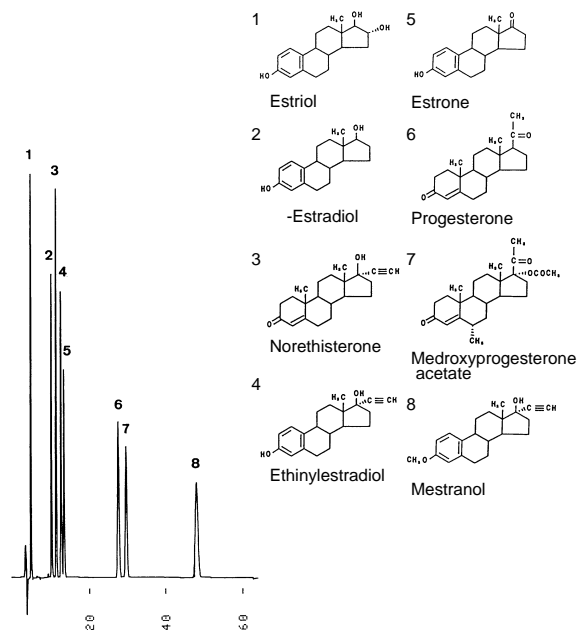
テストステロン誘導体
Synthetic androgens

Column : J'sphere ODS-L80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/water (70/30)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 5 μL (0.1 ~ 0.25 mg/mL)

テストステロン誘導体
Synthetic androgens

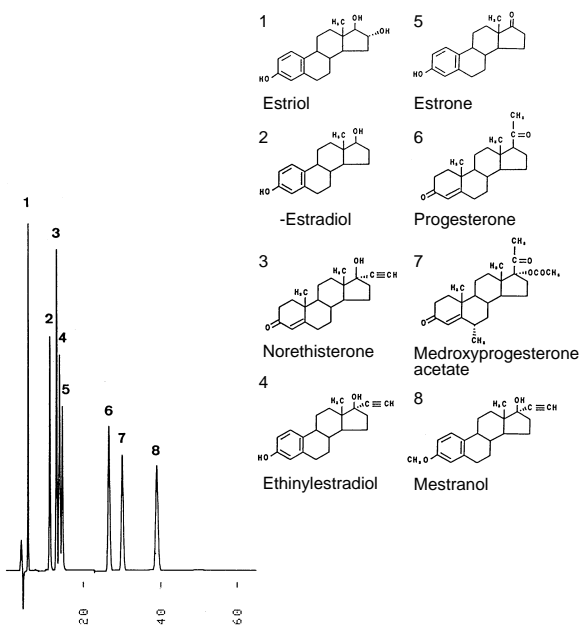
(S940412C)

Column : J'sphere ODS-M80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/water (70/30)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 5 μL (0.1 ~ 0.25 mg/mL)

女性ホルモン
Estrogens and progestins

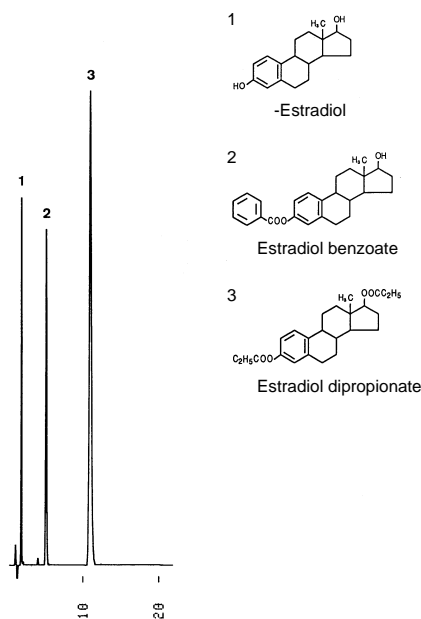
(S930311D)

Column : YMC-Pack ODS-A (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : acetonitrile/THF/water (46/4/50)
Flow rate : 0.7 mL/min
Temperature : 30
Detection : UV at 230 nm, 0.16 AUFS
Injection : 7 μL (0.1 mg/mL)

女性ホルモン
Estrogens and progestins

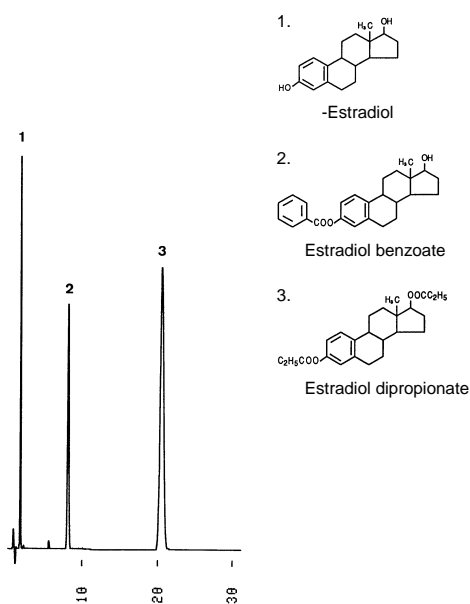
(S930312C)

Column : YMC-Pack C₈ (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : acetonitrile/THF/water (46/4/50)
Flow rate : 0.7 mL/min
Temperature : 30
Detection : UV at 230 nm, 0.16 AUFS
Injection : 7 μL (0.1 mg/mL)

エストロジオール誘導体
Estrogens

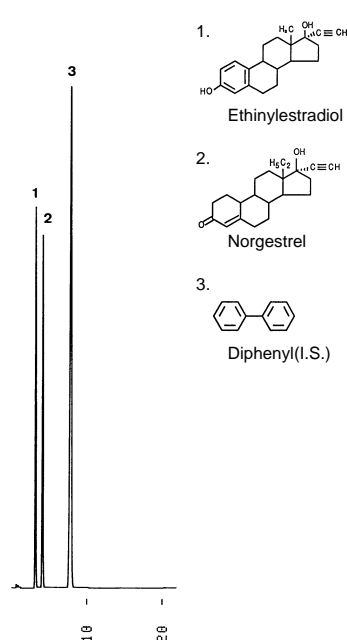
(S940428E)

Column : J'sphere ODS-L80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/water (65/35)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.13 AUFS
Injection : 6 μL (0.08 ~ 0.5 mg/mL)

エストラジオール誘導体
Estrogens

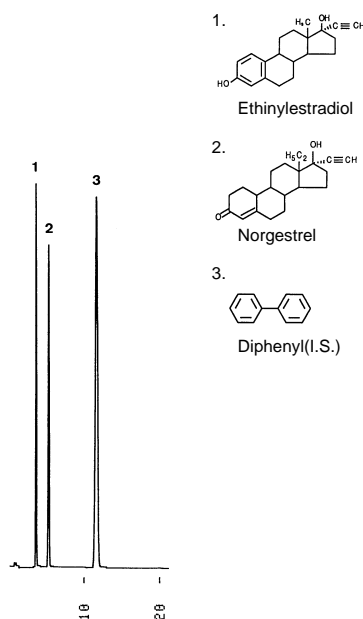
(S940428F)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/water (65/35)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.13 AUFS
Injection : 6 μ L (0.08 ~ 0.5 mg/mL)

ノルゲストレルとエチニルエストラジオール
Norgestrel and ethinylestradiol

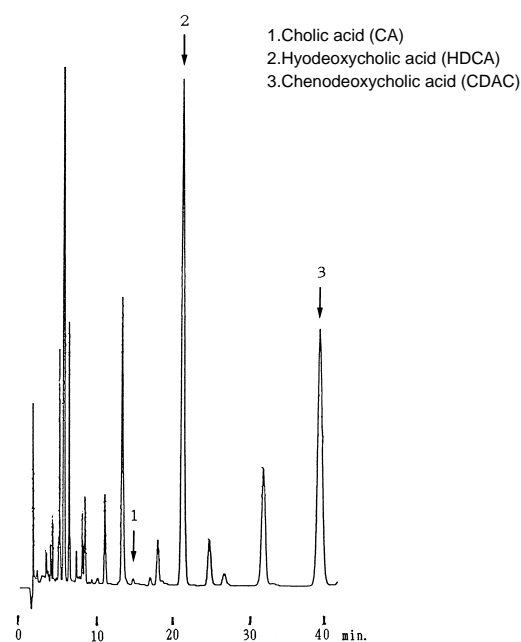
(S940427B)

Column : J'sphere ODS-L80 (4 μ m, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/water (50/50)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.13 AUFS
Injection : 6 μ L (0.05 ~ 0.1 mg/mL)

ノルゲストレルとエチニルエストラジオール
Norgestrel and ethinylestradiol

(S940426A)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/water (50/50)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.13 AUFS
Injection : 6 μ L (0.05 ~ 0.1 mg/mL)

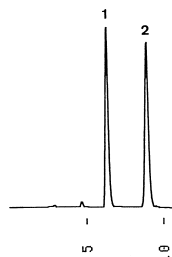
トンタン (豚胆) 中の胆汁酸のフェナシルエステル誘導体
Phenacyl esters of bile acids from pig gall

(G900417B)

Column : YMC-Pack ODS-AL (5 μ m, 12nm)
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (60/40)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 240 nm, 0.04 AUFS
Sample : extract of pig gall were derivatized with phenacyl bromide
Injection : 5 μ L

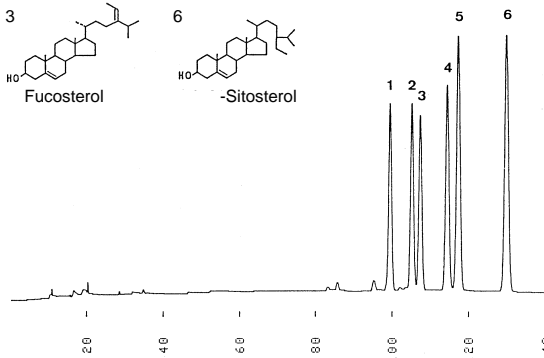
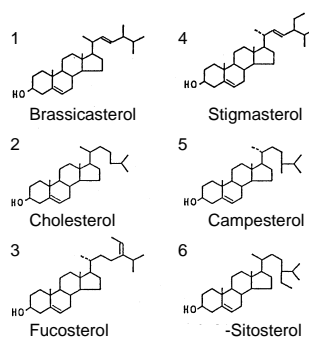
エクダイソン
Ecdysones

1. -Ecdysone
2. -Ecdysone



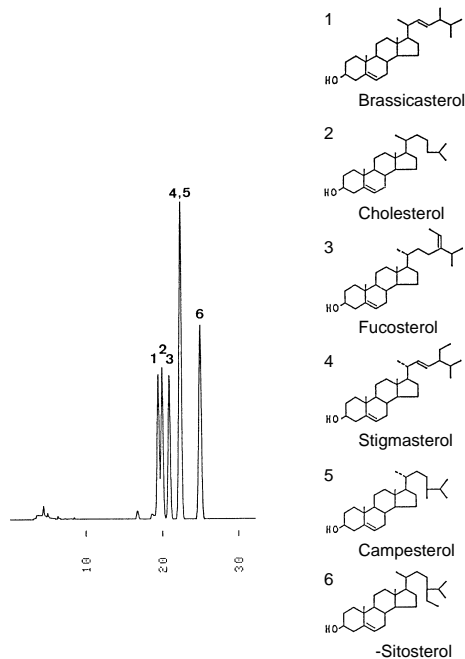
Courtesy of Dr.Furusawa, Kyoto Institute of Technology, Japan (G910523H)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/methanol/water(5/50/45)
Flow rate : 0.5 mL/min
Temperature : ambient
Detection : UV at 254 nm, 0.04 AUFS
Injection : 5 μ L (0.04 mg/mL)

ステロール
Sterols

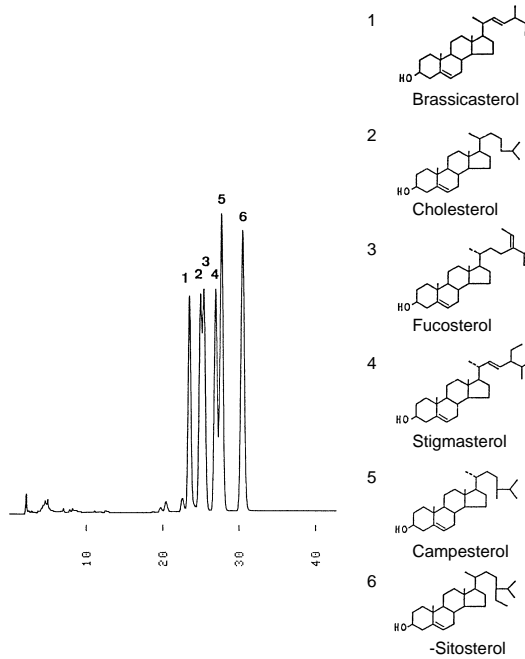
(O940701C)

Column : YMC-Pack ODS-AL (5 μ m, 12nm) + ODS-AL + ODS-AL +
J'sphere ODS-M80 (4 μ m, 8nm)
(250 \times 4.6 mm I.D.) \times 4
Eluent : methanol/water (100/2)
Flow rate : 0.8 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.16 AUFS
Injection : 10 μ L (0.4 ~ 1 mg/mL)

ステロール
Sterols

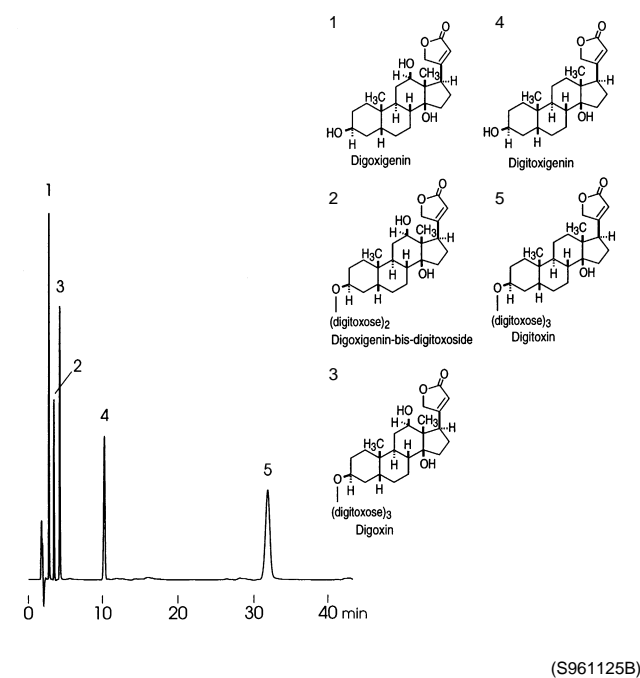
(O940706H)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
250 \times 4.6 mm I.D.
Eluent : methanol/water (100/2)
Flow rate : 0.8 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.64 AUFS
Injection : 10 μ L (0.4 ~ 1 mg/mL)

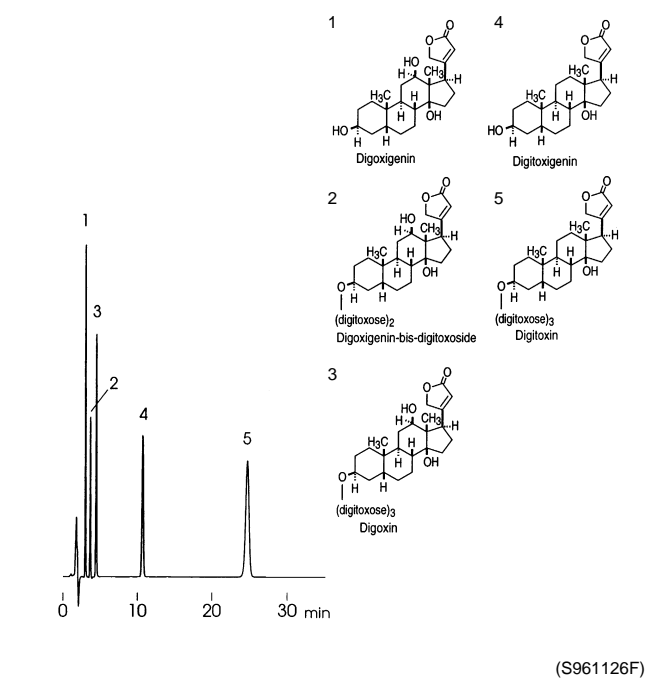
ステロール
Sterols

(O940706C)

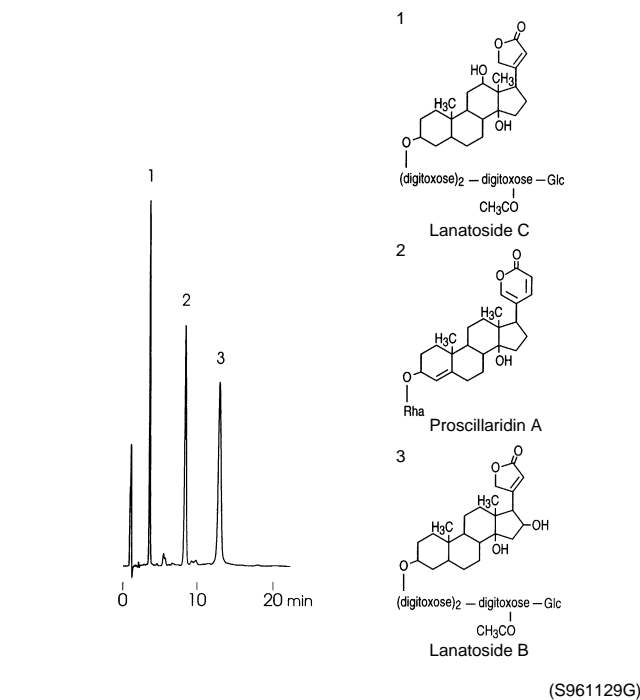
Column : YMC-Pack ODS-AL (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : methanol/water (100/2)
Flow rate : 0.8 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.32 AUFS
Injection : 10 μ L (0.4 ~ 1 mg/mL)

強心配糖体
Cardiac glycosides

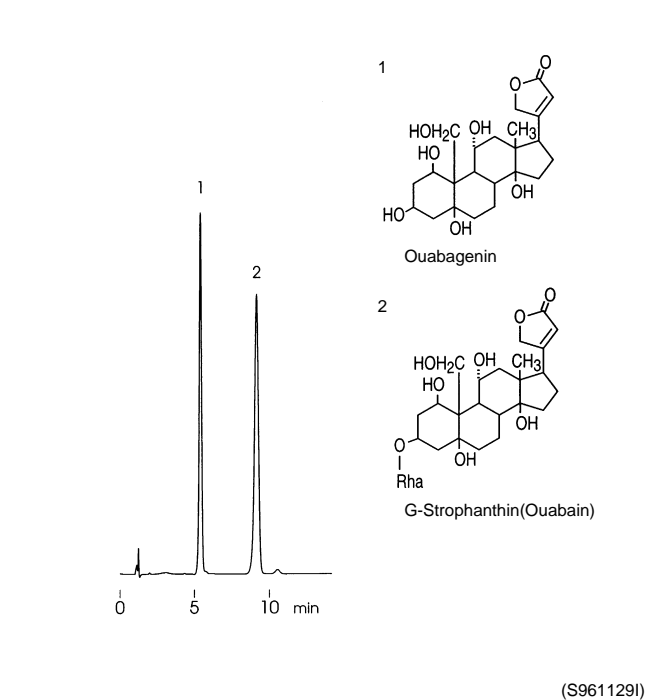
Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 x 4.6 mm I.D.
Eluent : acetonitrile/water (35/65)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.13 AUFS
Injection : 4 μ L (0.05 ~ 0.2 mg/mL)

強心配糖体
Cardiac glycosides

Column : J'sphere ODS-L80 (4 μ m, 8nm)
150 x 4.6 mm I.D.
Eluent : acetonitrile/water (35/65)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.13 AUFS
Injection : 4 μ L (0.05 ~ 0.2 mg/mL)

強心配糖体
Cardiac glycosides

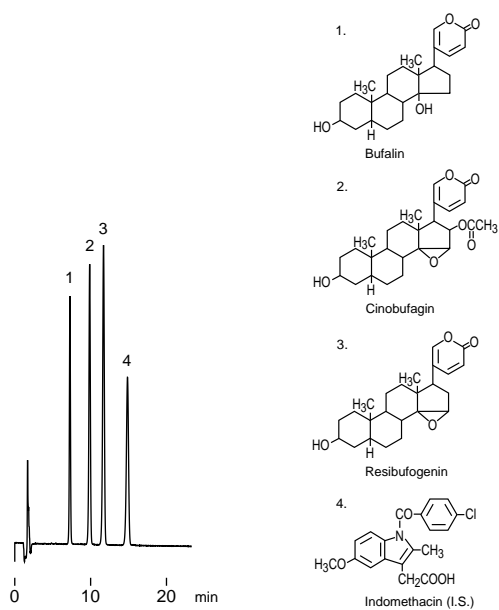
Column : YMC-Pack Pro C18 (5 μ m, 12nm)
75 x 4.6 mm I.D.
Eluent : acetonitrile/water (30/70)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.13 AUFS
Injection : 8 μ L (0.1 ~ 0.2 mg/mL)

強心配糖体
Cardiac glycosides

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
75 x 4.6 mm I.D.
Eluent : acetonitrile/water (10/90)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.26 AUFS
Injection : 5 μ L (0.2, 0.4 mg/mL)

センソ成分

Steroids from toad venom



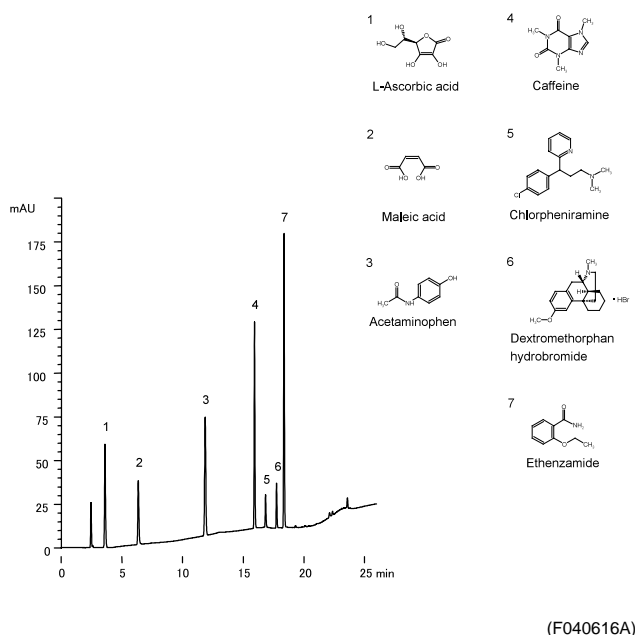
(S010806A)

Column : YMC-Pack ODS-AL (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/0.1% phosphoric acid (45/55)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 300 nm, 0.08 AUFS
Injection : 10 μ L (0.04 ~ 0.08 mg/mL)

(日本薬局方第14改正記載条件)

風邪薬成分

Ingredients in a cough/cold medication



Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.

Eluent : A) 20mM $\text{KH}_2\text{PO}_4\text{-H}_3\text{PO}_4$ (pH 2.5)
B) methanol
0-20%B(0-10min), 20-90%B(10-20min), 90%B(20-25min)

Flow rate : 1.0 mL/min

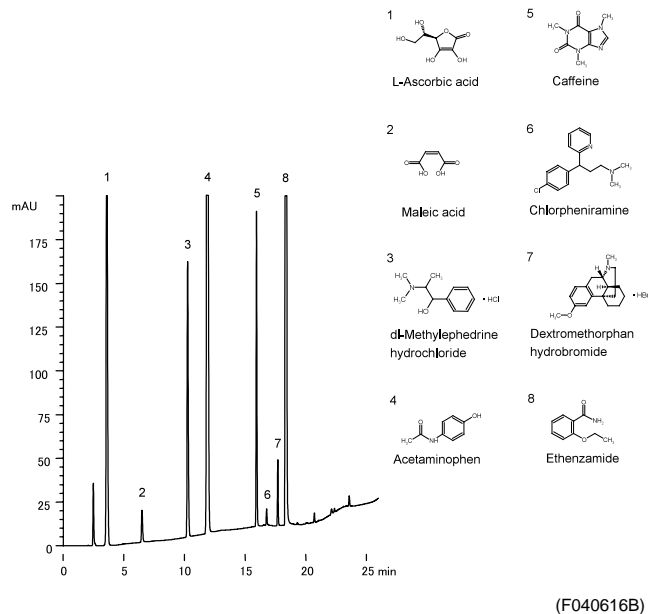
Temperature : 37

Detection : UV at 210 nm(0-13min), UV at 235 nm(13-25min)

Injection : 10 μ L (12.5 ~ 50.0 μ g/mL)

市販風邪薬

A commercial cough/cold medication



Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.

Eluent : A) 20mM $\text{KH}_2\text{PO}_4\text{-H}_3\text{PO}_4$ (pH 2.5)
B) methanol
0-20%B(0-10min), 20-90%B(10-20min), 90%B(20-25min)

Flow rate : 1.0 mL/min

Temperature : 37

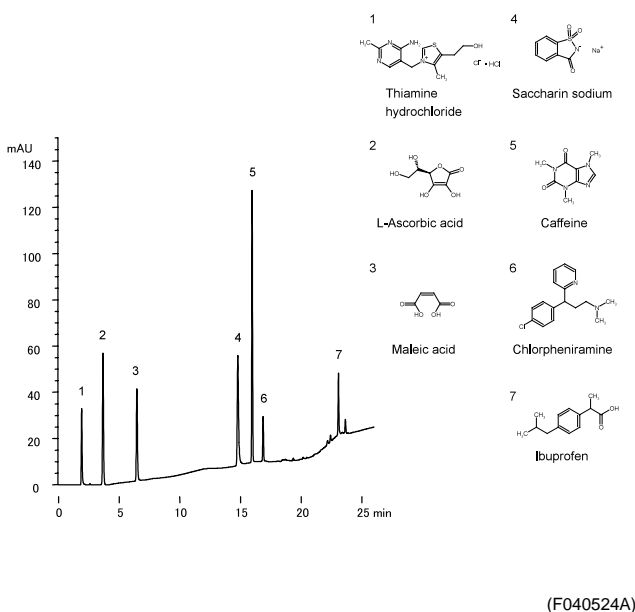
Detection : UV at 210 nm(0-13min), UV at 235 nm(13-25min)

Injection : 15 μ L (1.5 mg/mL)

Sample : 70% methanol extract of a commercially available cough/cold medication

風邪薬成分

Ingredients in a cough/cold medication



Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.

Eluent : A) 20mM $\text{KH}_2\text{PO}_4\text{-H}_3\text{PO}_4$ (pH 2.5)
B) methanol
0-20%B(0-10min), 20-90%B(10-20min), 90%B(20-25min)

Flow rate : 1.0 mL/min

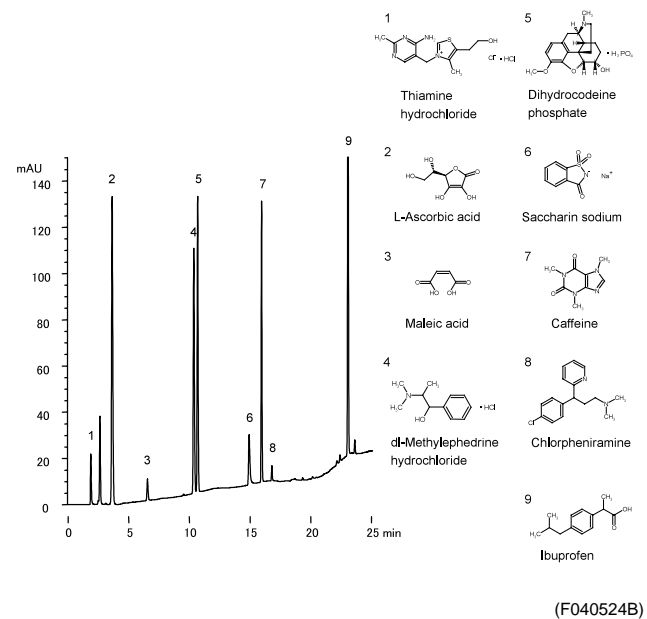
Temperature : 37

Detection : UV at 210 nm(0-12min), UV at 235 nm(12-25min)

Injection : 10 μ L (12.5 ~ 50.0 μ g/mL)

市販風邪薬

A commercial cough/cold medication



Column : Hydrosphere C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.

Eluent : A) 20mM $\text{KH}_2\text{PO}_4\text{-H}_3\text{PO}_4$ (pH 2.5)
B) methanol
0-20%B(0-10min), 20-90%B(10-20min), 90%B(20-25min)

Flow rate : 1.0 mL/min

Temperature : 37

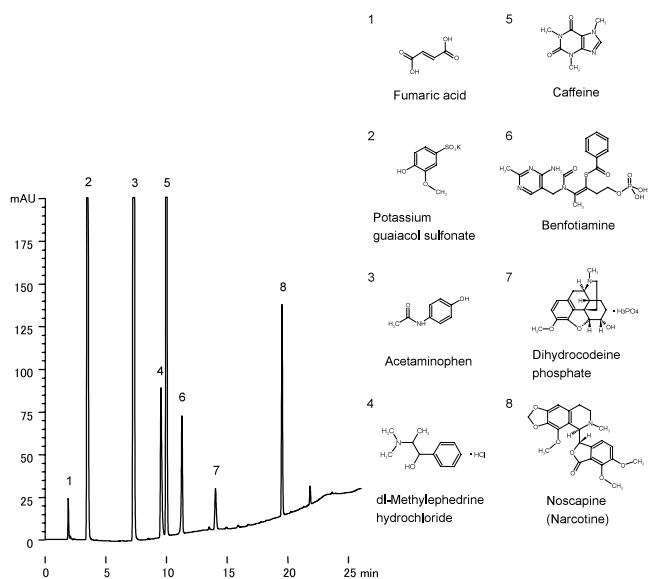
Detection : UV at 210 nm(0-12min), UV at 235 nm(12-25min)

Injection : 15 μ L (1.5 mg/mL)

Sample : 70% methanol extract of a commercially available cough/cold medication

市販風邪薬

A commercial cough/cold medication



(F040706B)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.

Eluent : A) 20mM KH_2PO_4 - K_2HPO_4 (pH 6.9)
B) methanol

Flow rate : 1.0 mL/min

Temperature : 37

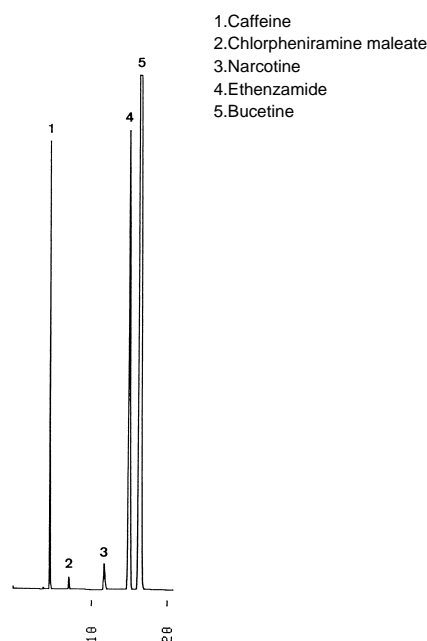
Detection : UV at 215 nm(0-13min), UV at 235 nm(13-25min)

Injection : 2 μ L (15 mg/mL)

Sample : 70% methanol extract of a commercially available cough/cold medication

市販風邪薬

A commercial cough/cold medication



(G910523U)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
250 \times 4.6 mm I.D.

Eluent : acetonitrile/methanol/0.1% phosphoric acid (18/15/77)

Flow rate : 1.0 mL/min

Temperature : 30

Detection : UV at 254 nm, 0.08 AUFS

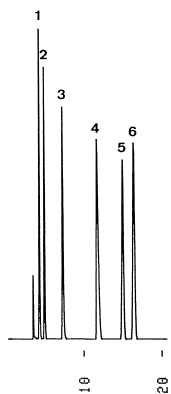
Injection : 3 μ L (10 mg/mL)

Sample : an extract from a commercially available cough/cold preparation

風邪薬成分

Ingredients in a cough/cold medication

1. Acetaminophen
2. Caffeine
3. Chlorpheniramine malate
4. Narcotine
5. Ethenzamide
6. Bucetine



(G910523E)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
250 \times 4.6 mm I.D.

Eluent : acetonitrile/methanol/0.1% phosphoric acid (18/15/77)

Flow rate : 1.0 mL/min

Temperature : 30

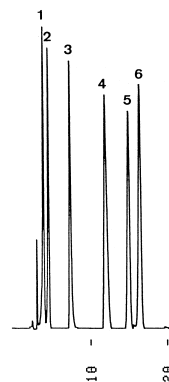
Detection : UV at 254 nm, 0.08 AUFS

Injection : 10 μ L (0.02 ~ 0.22 mg/mL)

風邪薬成分

Ingredients in a cough/cold medication

1. Acetaminophen
2. Caffeine
3. Chlorpheniramine malate
4. Narcotine
5. Ethenzamide
6. Bucetine



(G910523F)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 \times 6.0 mm I.D.

Eluent : acetonitrile/methanol/0.1% phosphoric acid (18/15/77)

Flow rate : 1.0 mL/min

Temperature : 30

Detection : UV at 254 nm, 0.08 AUFS

Injection : 17 μ L (0.02 ~ 0.22 mg/mL)

市販鎮痛解熱剤 Pain-killing drug

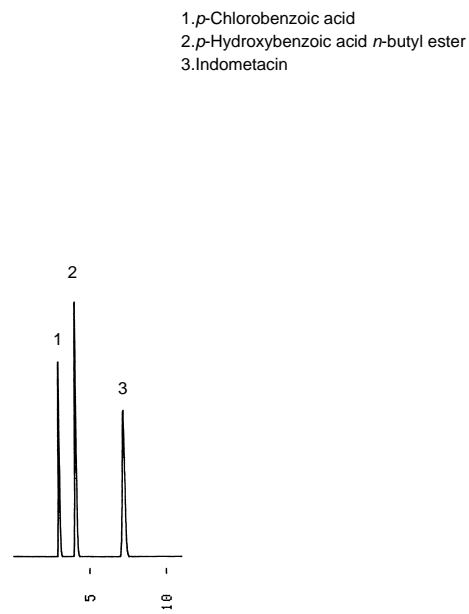


1. Acetaminophen
2. Caffeine
3. Ethenzamide
4. Bromovalerylurea

(G900727D)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/0.1% phosphoric acid (3/17)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.16 AUFS
Injection : 5 μ L

インドメタシン Indometacin

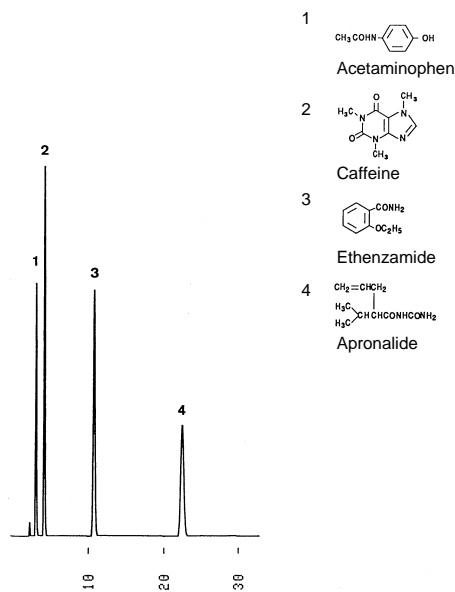


1. *p*-Chlorobenzoic acid
2. *p*-Hydroxybenzoic acid *n*-butyl ester
3. Indometacin

(G900727F)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : methanol/0.1% phosphoric acid (70/30)
Flow rate : 1.3 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.64 AUFS
Injection : 20 μ L
(日本薬局方第12改正記載条件)

解熱鎮痛薬成分 Analgesics

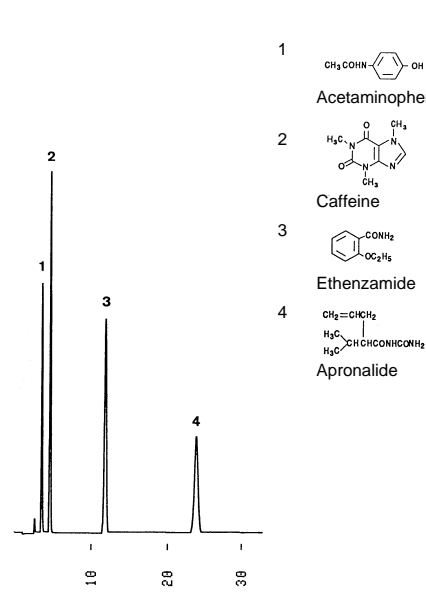


1. CC(=O)Nc1ccc(O)cc1
Acetaminophen
2. CN1C=NC2=C1C(=O)N(C)C2=O
Caffeine
3. CCOC(=O)Nc1ccccc1
Ethenzamide
4. CC(C)C(=O)Nc1ccc(O)cc1
Apronalide

(S930422D)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : methanol/water (40/60)
Flow rate : 0.7 mL/min
Temperature : 30
Detection : UV at 220 nm, 0.51 AUFS
Injection : 5 μ L (0.2 ~ 2.0 mg/mL)

解熱鎮痛薬成分 Analgesics

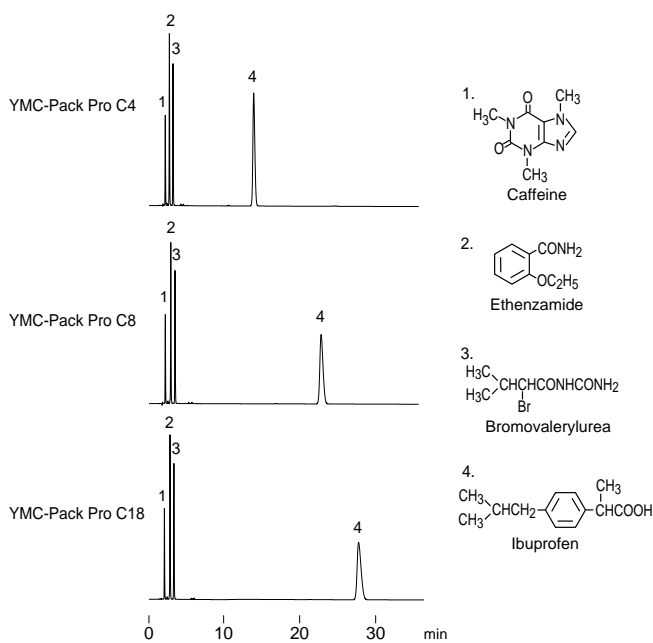


1. CC(=O)Nc1ccc(O)cc1
Acetaminophen
2. CN1C=NC2=C1C(=O)N(C)C2=O
Caffeine
3. CCOC(=O)Nc1ccccc1
Ethenzamide
4. CC(C)C(=O)Nc1ccc(O)cc1
Apronalide

(S930422G)

Column : YMC-Pack Cs (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : methanol/water (40/60)
Flow rate : 0.7 mL/min
Temperature : 30
Detection : UV at 220 nm, 0.51 AUFS
Injection : 5 μ L (0.2 ~ 2.0 mg/mL)

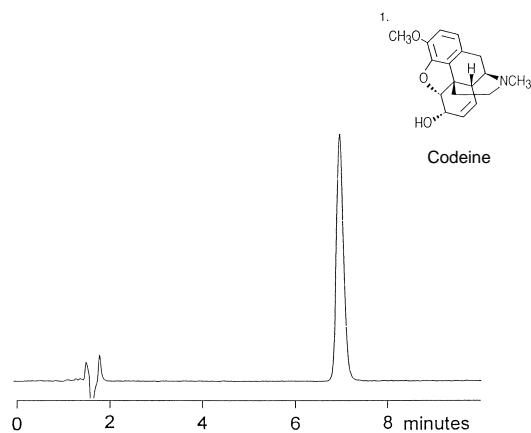
解熱鎮痛薬 Pain-killing drugs



(A001019B)

Column : YMC-Pack Pro C4, Pro C8 and Pro C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : methanol/20mM H₃PO₄ (60/40)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.32 AUFS
Injection : 10 μ L (0.01 ~ 2.0 mg/mL)

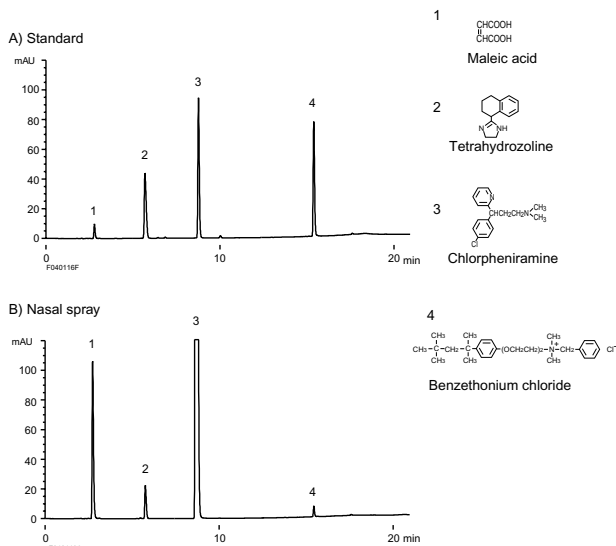
コデイン Codeine



(J010528A)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/0.05% TFA (10/90)
Flow rate : 1.5 mL/min
Detection : UV at 210 nm
Injection : 5 μ L (0.1 mg/mL)

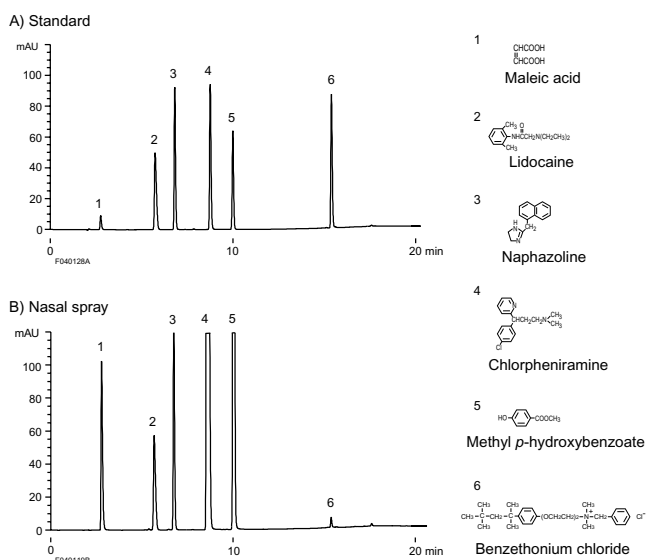
市販点鼻薬 A commercial nasal spray



(F040119A)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : A) 20mM KH₂PO₄-H₃PO₄ (pH 2.5)
B) methanol
20-90%B(0-15min), 90%B(15-20min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm
Injection : A) 5 μ L (0.1 ~ 0.7 mg/mL)
B) 3 μ L (2 times dilution of a commercially available nasal spray with water)

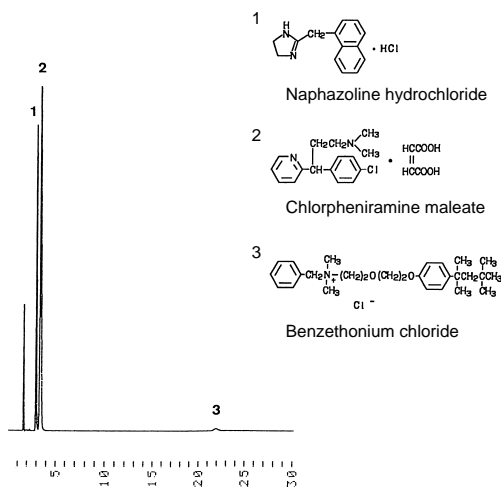
市販点鼻薬 A commercial nasal spray



(F040119B)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : A) 20mM KH₂PO₄-H₃PO₄ (pH 2.5)
B) methanol
20-90%B(0-15min), 90%B(15-20min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm
Injection : A) 5 μ L (0.1 ~ 0.7 mg/mL)
B) 3 μ L (2 times dilution of a commercially available nasal spray with water)

鼻炎用点鼻剤 Collunarium

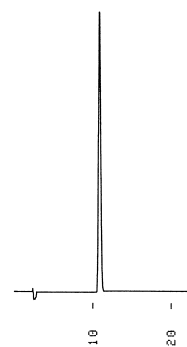


Courtesy of NIHON ARUTU PHARMACEUTICAL CO.,LTD. (Y920610A)

Column : YMC-Pack Ph (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/NH₄SCN (48/52/0.5, v/v/w)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 270 nm, 2.56 AUFS
Injection : 10 μ L (0.2 ~ 5 mg/mL)
Sample : collunarium

塩化ベンゼトニウム Benzethonium chloride

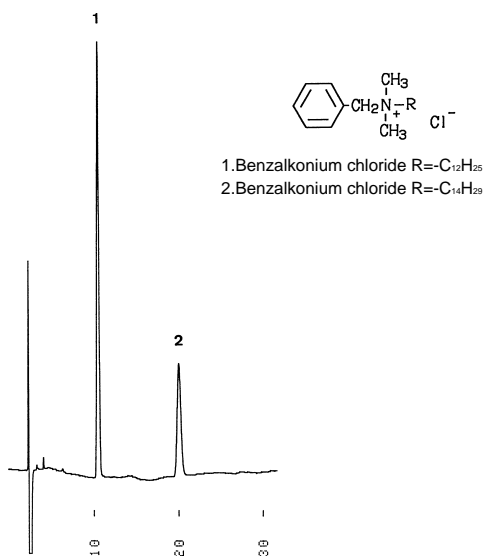
1. Benzethonium chloride



Courtesy of NIHON ARUTU PHARMACEUTICAL CO.,LTD. (T920527A)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 × 6.0 mm I.D.
Eluent : acetonitrile/water/NH₄SCN (70/30/0.5, v/v/w)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 270 nm, 0.16 AUFS
Injection : 10 μ L (1.0 mg/mL)

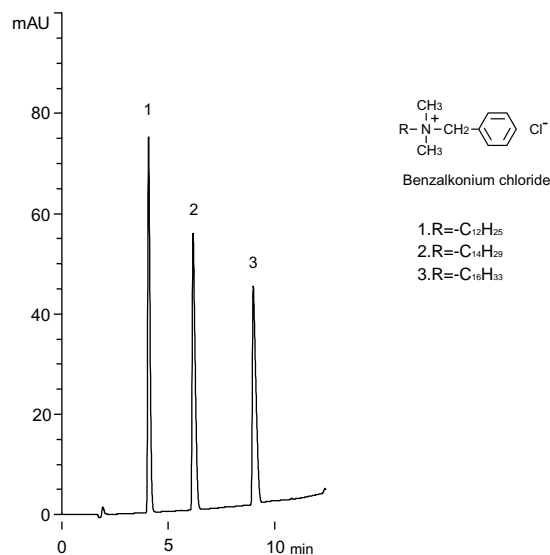
塩化ベンザルコニウム Benzalkonium chloride



Courtesy of NIHON ARUTU PHARMACEUTICAL CO.,LTD. (T920529D)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 × 6.0 mm I.D.
Eluent : acetonitrile/water/NH₄SCN (70/30/0.5, v/v/w)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 260 nm, 0.02 AUFS
Injection : 10 μ L (1.0 mg/mL benzalkonium chloride)

塩化ベンザルコニウム Benzalkonium chloride

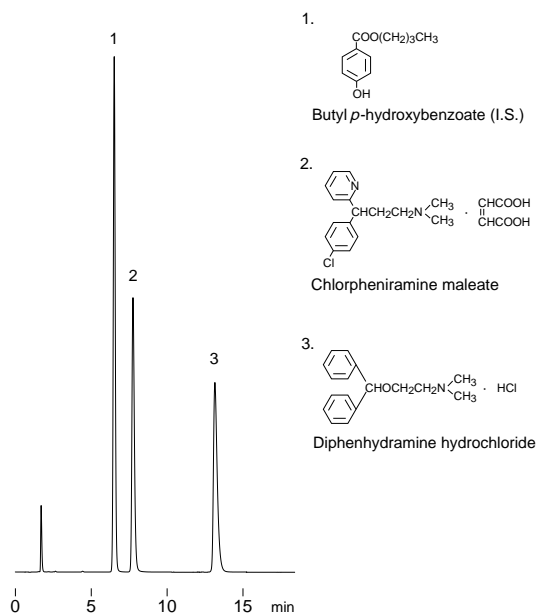


(F031210G)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : A) 100mM NaClO₄/methanol (20/80)
B) methanol
0-50%B(0-10min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm
Injection : 10 μ L (1.0 mg/mL)

抗ヒスタミン薬

Histamine antagonists

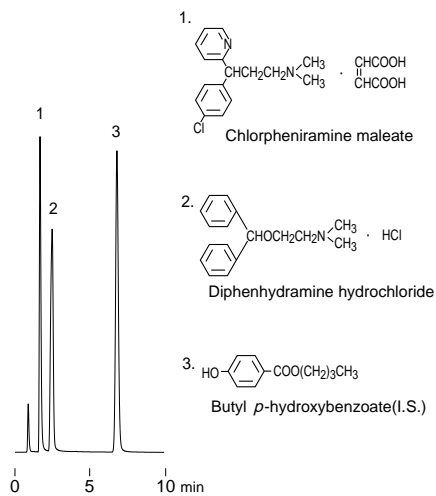


(J010619A)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM KH₂PO₄ - K₂HPO₄ (pH 6.9) / methanol (35/65)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.13 AUFS
Injection : 5 μL (0.05 ~ 2.0 mg/mL)

抗ヒスタミン薬

Histamine antagonists

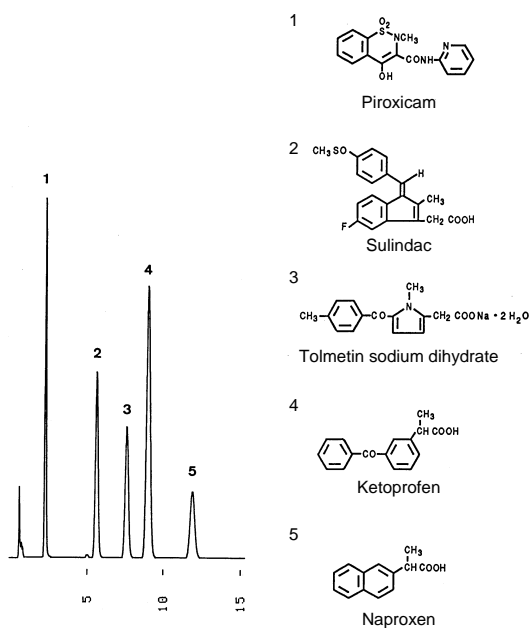


(A980723A)

Column : YMC-Pack Pro C18 (3 μm, 12nm)
75 × 2.0 mm I.D.
Eluent : acetonitrile / 50mM CH₃COONH₄ (40/60)
Flow rate : 0.2 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 2 μL (0.05 ~ 2.0 mg/mL)

酸性非ステロイド性抗炎症薬

Acidic non-steroidal anti-inflammatory drugs

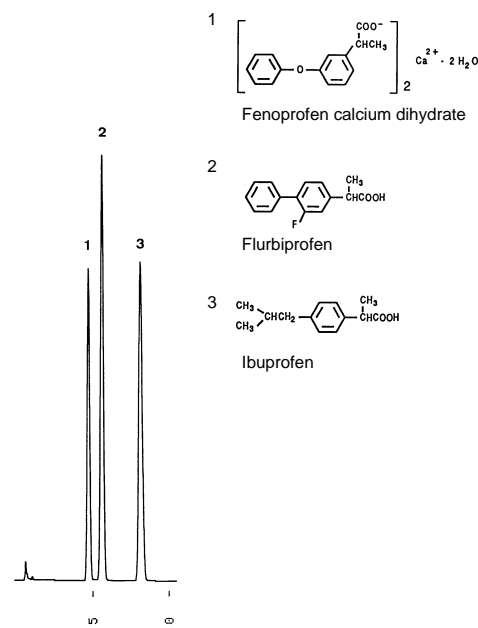


(O950124A)

Column : J'sphere ODS-H80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : 2-propanol/water/acetic acid (25/75/1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.04 AUFS
Injection : 5 μL (20 μg/mL)

酸性非ステロイド性抗炎症薬

Acidic non-steroidal anti-inflammatory drugs

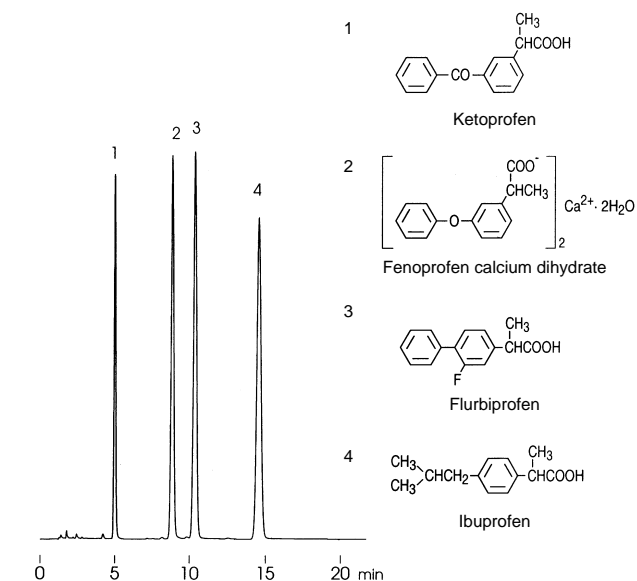


(O950125C)

Column : J'sphere ODS-H80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : methanol/water/acetic acid (65/35/1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.04 AUFS
Injection : 7 μL (160, 16, 820 μg/mL)

酸性非ステロイド性抗炎症薬

Acidic non-steroidal anti-inflammatory drugs

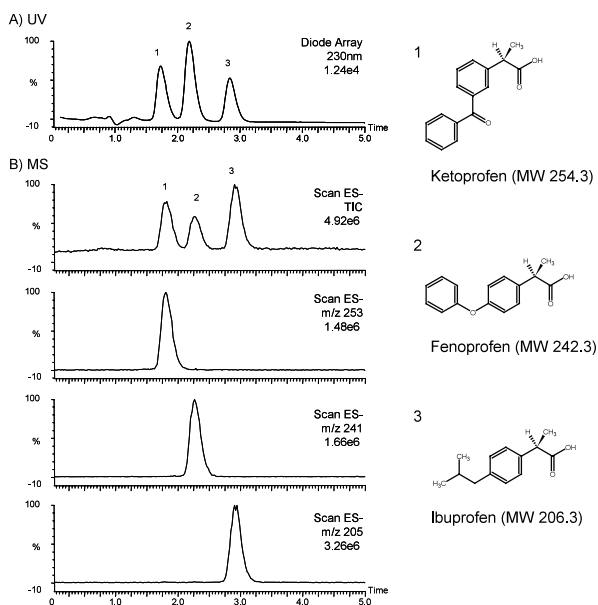


(A970321A)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : methanol/water/acetic acid (65/35/1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.032 AUFS
Injection : 7 μ L (6 ~ 820 μ g/mL)

酸性非ステロイド性解熱鎮痛抗炎症薬 - LC/MS

Acidic non-steroidal anti-inflammatory drugs - LC/MS

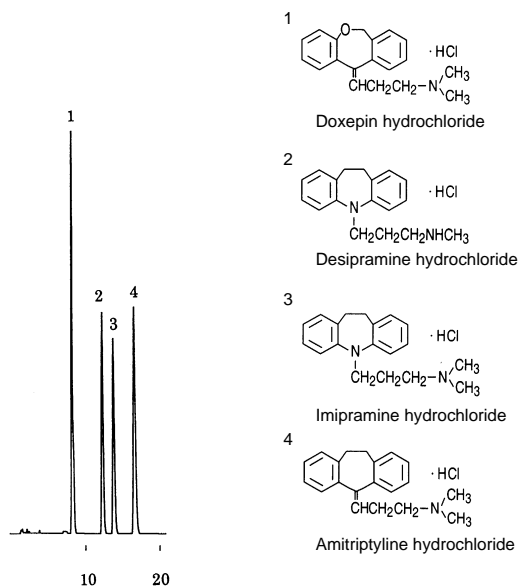


(J040722B)

Column : YMC-Pack Pro C18 (3 μ m, 12nm)
50 \times 2.0 mm I.D.
Eluent : methanol/water/ CH_3COOH (75/25/0.05)
Flow rate : 0.2 mL/min
Temperature : 37
Detection : A) UV at 230 nm
B) ESI negative-mode
Injection : 1 μ L (50 μ g/mL)

三環系抗うつ薬

Tricyclic antidepressants

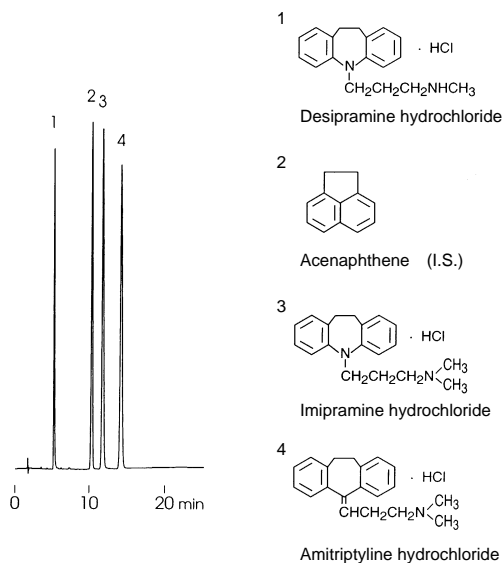


(D960724A)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/50mM $\text{NH}_4\text{H}_2\text{PO}_4$ (30/70)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 215 nm, 0.13 AUFS
Injection : 2 μ L (0.125 mg/mL)

三環系抗うつ薬

Tricyclic antidepressants

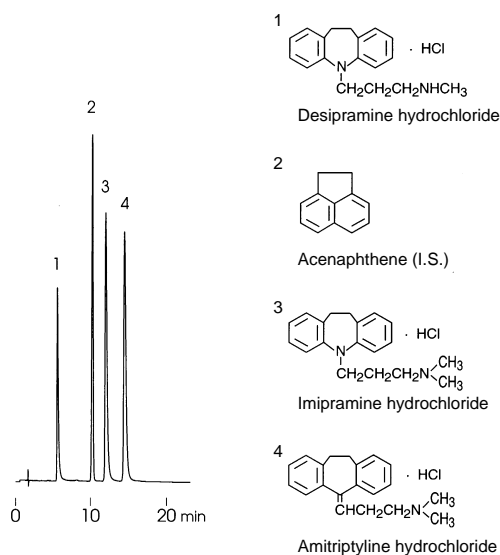


(A961015G)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : 20mM KH_2PO_4 - K_2HPO_4 (pH 6.9)/methanol (25/75)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.16 AUFS
Injection : 5 μ L (0.1 ~ 0.5 mg/mL)

三環系抗うつ薬

Tricyclic antidepressants

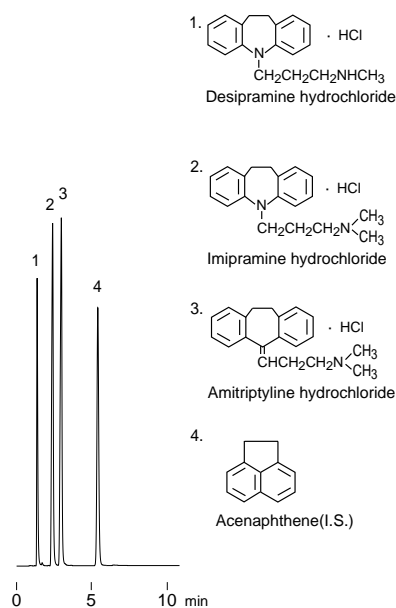


(A961016B)

Column : YMC-Pack ODS-AM (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM KH₂PO₄ - K₂HPO₄ (pH 6.9)/methanol (25/75)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.16 AUFS
Injection : 5 μL (0.1 ~ 0.5 mg/mL)

三環系抗うつ薬

Tricyclic antidepressants

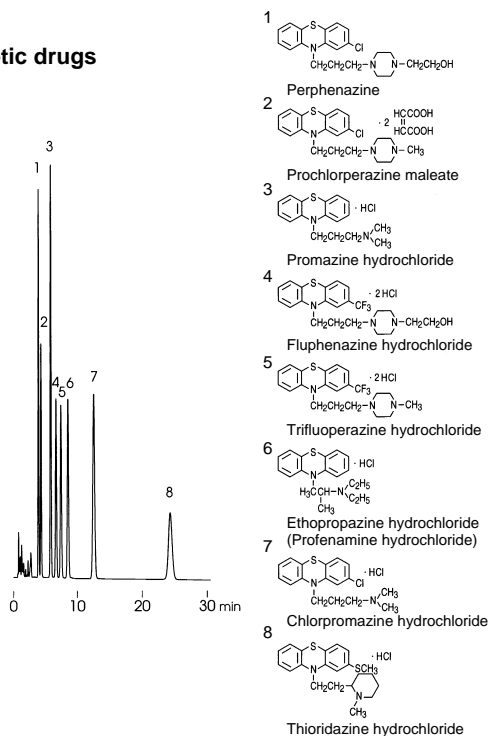


(A980827E)

Column : YMC-Pack Pro C18 (3 μm, 12nm)
75 × 4.6 mm I.D.
Eluent : methanol / 20mM CH₃COONH₄ (75/25)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.32 AUFS
Injection : 5 μL (0.1 ~ 0.5 mg/mL)

抗精神病薬

Antipsychotic drugs

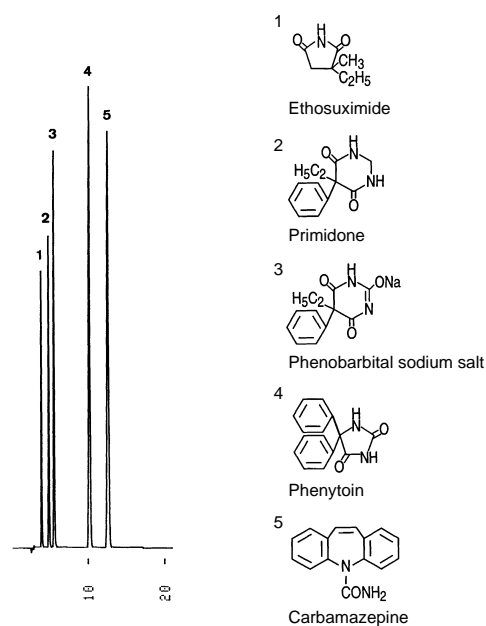


(O950627B)

Column : J'sphere ODS-H80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/water/TFA (30/70/0.1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.064 AUFS
Injection : 5 μL (0.02 mg/mL)

抗てんかん薬

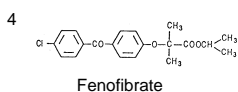
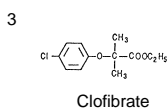
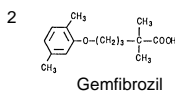
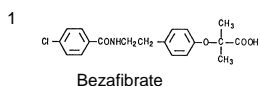
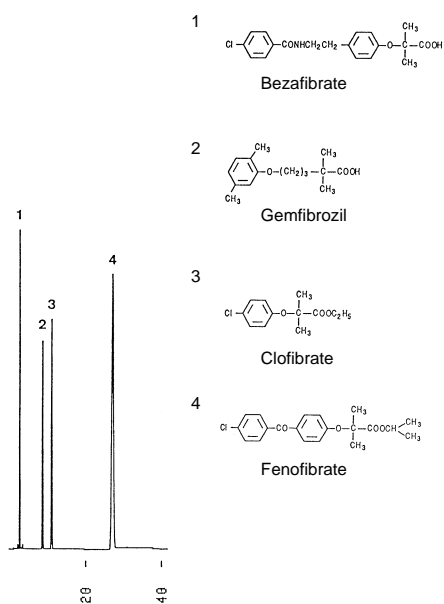
Antiepileptics



(S960723A)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 50mM NH₄H₂PO₄ - (NH₄)₂HPO₄ (pH 6.7)/methanol (50/50)
Flow rate : 0.7 mL/min
Temperature : 37
Detection : UV at 215 nm, 0.32 AUFS
Injection : 8 μL (0.035 ~ 0.7 mg/mL)

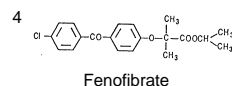
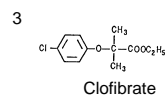
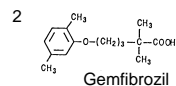
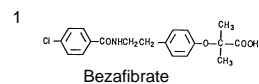
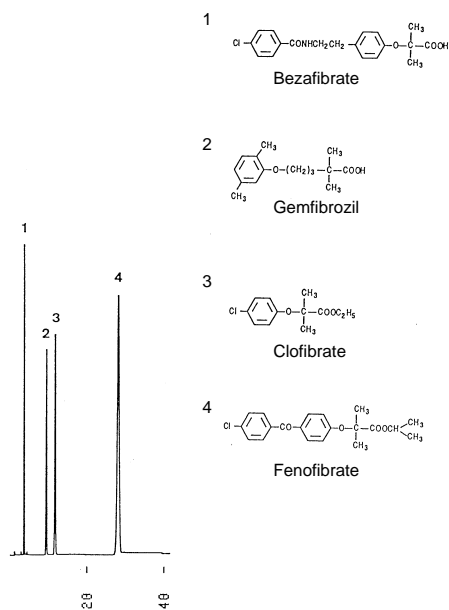
抗高脂血症剤 Hypolipidemic drugs



(S930706E)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (60/40/1)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 275 nm, 0.064 AUFS
Injection : 8 μL (0.05 ~ 0.25 mg/mL)

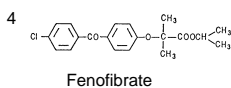
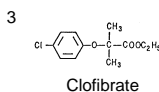
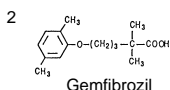
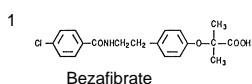
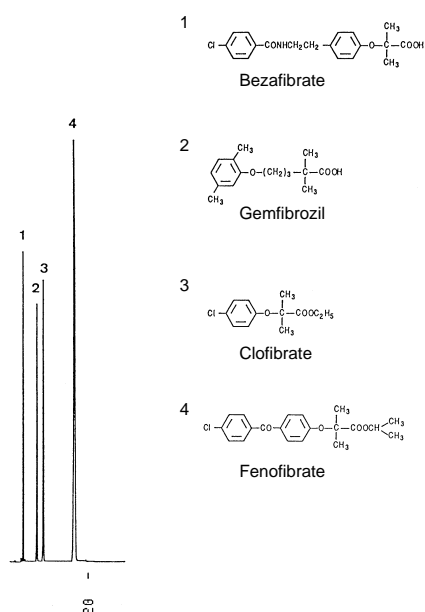
抗高脂血症剤 Hypolipidemic drugs



(S930706C)

Column : J'sphere ODS-M80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (60/40/1)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 275 nm, 0.064 AUFS
Injection : 8 μL (0.05 ~ 0.25 mg/mL)

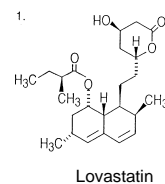
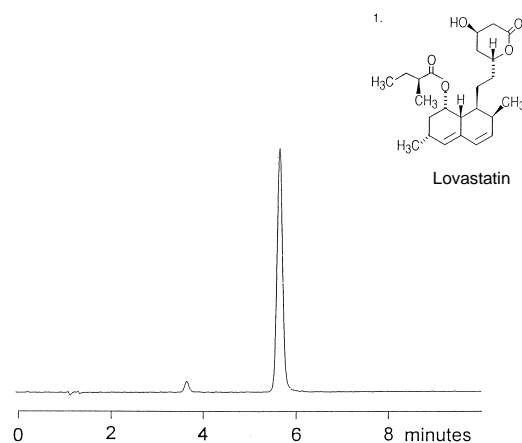
抗高脂血症剤 Hypolipidemic drugs



(S930706B)

Column : J'sphere ODS-L80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (60/40/1)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 275 nm, 0.064 AUFS
Injection : 8 μL (0.05 ~ 0.25 mg/mL)

ロバスタチン Lovastatin

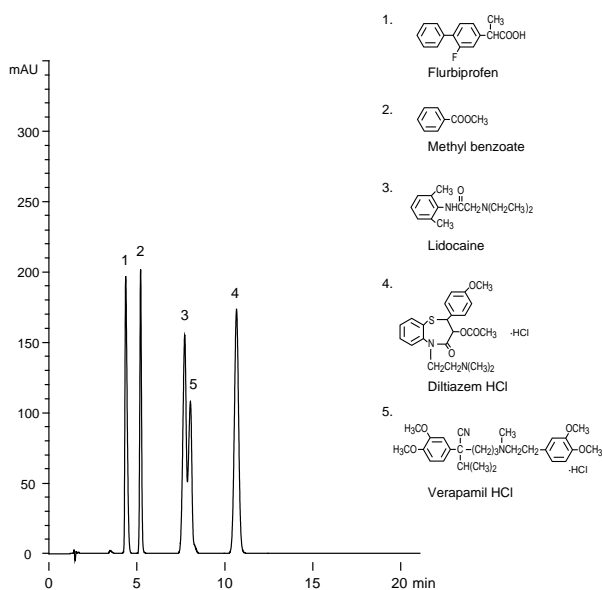


(J010528B)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/0.05% formic acid (30/70)
Flow rate : 1.5 mL/min
Detection : UV at 240 nm
Injection : 5 μL (0.1 mg/mL)

酸性および塩基性医薬品(pH 6.8)

Acidic and basic drugs (pH 6.8)

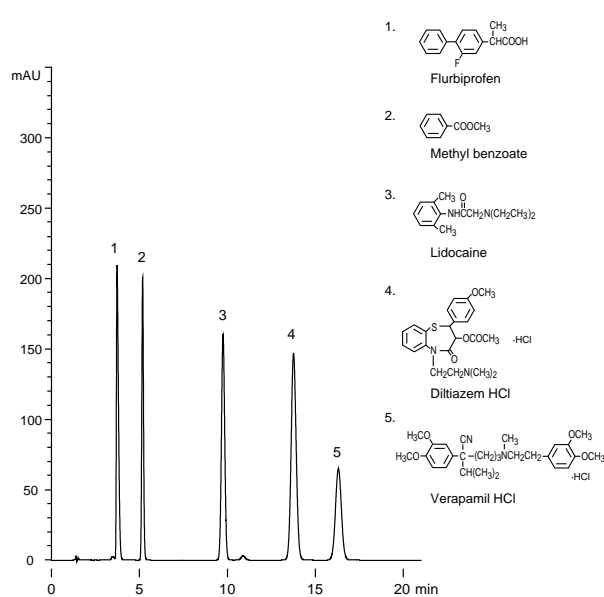


(F040714E)

Column : YMC-Pack Pro C18 RS (5 μ m, 8nm)
150 × 4.6 mm I.D.
Eluent : 20mM CH₃COONH₄/methanol (35/65)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 220 nm
Injection : 10 μ L (0.04 ~ 100 μ g/mL)

酸性および塩基性医薬品(pH 8.8)

Acidic and basic drugs (pH 8.8)

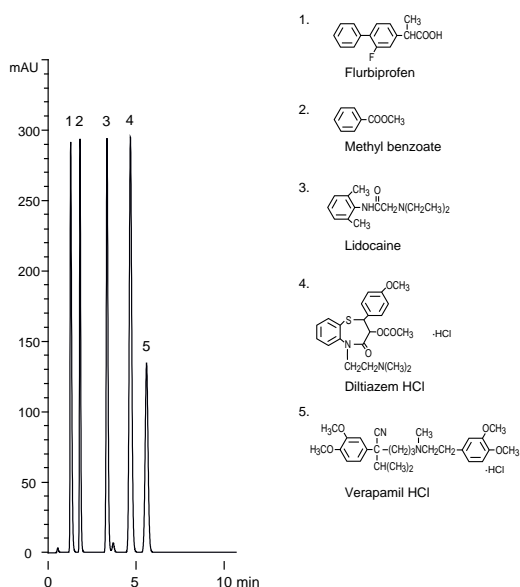


(F040714C)

Column : YMC-Pack Pro C18 RS (5 μ m, 8nm)
150 × 4.6 mm I.D.
Eluent : 20mM CH₃COONH₄-NH₃(pH 8.8)/methanol (35/65)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 220 nm
Injection : 10 μ L (0.04 ~ 100 μ g/mL)

酸性および塩基性医薬品(pH 8.8)

Acidic and basic drugs (pH 8.8)

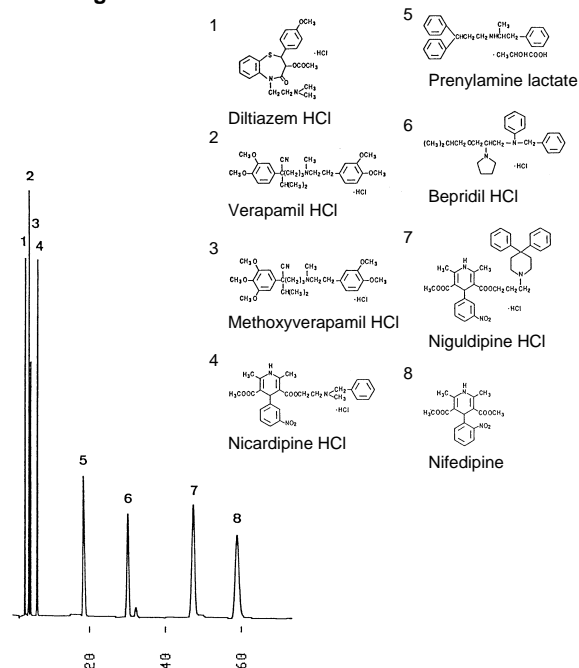


(F040714D)

Column : YMC-Pack Pro C18 RS (3 μ m, 8nm)
50 × 4.6 mm I.D.
Eluent : 20mM CH₃COONH₄-NH₃(pH 8.8)/methanol (35/65)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 220 nm
Injection : 10 μ L (0.04 ~ 100 μ g/mL)

カルシウム拮抗薬

Calcium antagonists

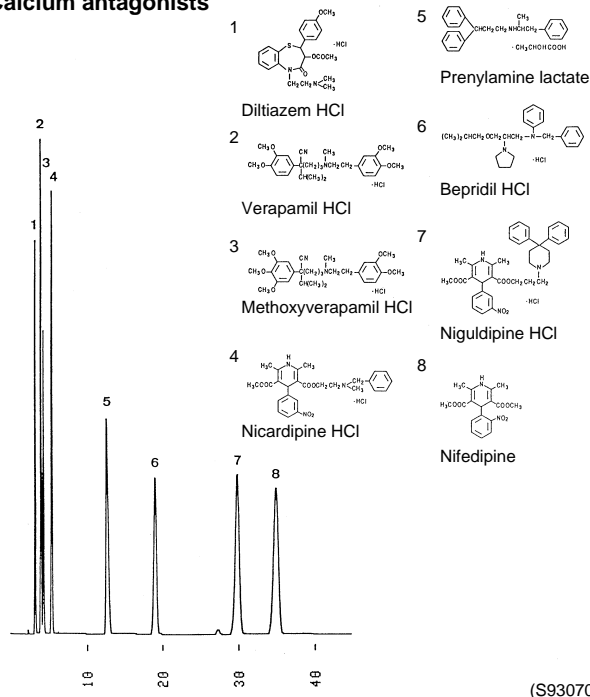


(S930702C)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 × 4.6 mm I.D.
Eluent : 20mM KH₂PO₄ - H₃PO₄ (pH 3.0)/acetonitrile/THF/TBA· Br
(75/15/10/0.5, v/v/v/w)
Flow rate : 0.8 mL/min
Temperature : 30
Detection : UV at 270 nm, 0.064 AUFS
Injection : 8 μ L (0.05 ~ 1.4 mg/mL)

カルシウム拮抗薬

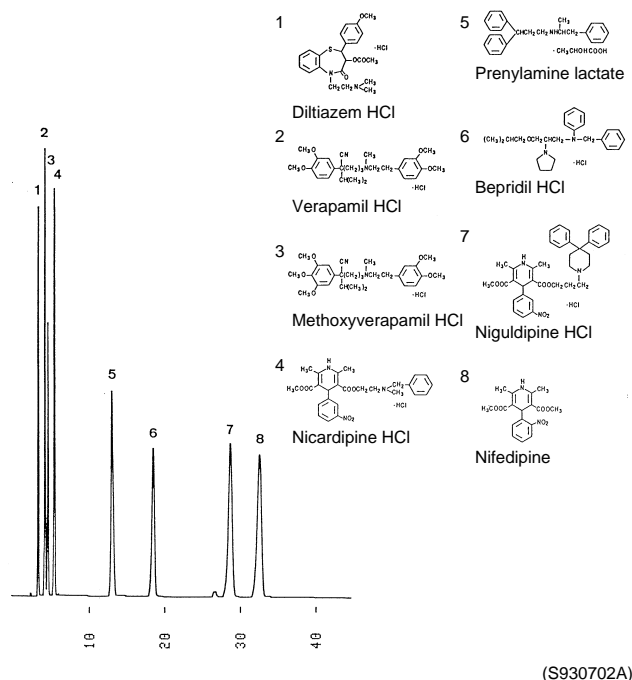
Calcium antagonists



Column : J'sphere ODS-M80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : 20mM KH_2PO_4 - H_3PO_4 (pH 3.0)/acetonitrile/THF/TBA \cdot Br
(70/20/10/0.35, v/v/v/w)
Flow rate : 0.8 mL/min
Temperature : 30
Detection : UV at 270 nm, 0.064 AUFS
Injection : 8 μ L (0.05 ~ 1.4 mg/mL)

カルシウム拮抗薬

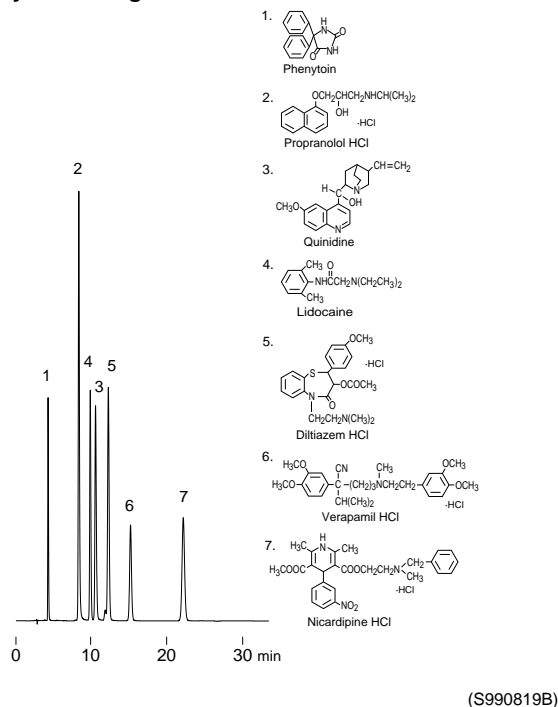
Calcium antagonists



Column : J'sphere ODS-L80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : 20mM KH_2PO_4 - H_3PO_4 (pH 3.0)/acetonitrile/THF/TBA \cdot Br
(70/20/10/0.35, v/v/v/w)
Flow rate : 0.8 mL/min
Temperature : 30
Detection : UV at 270 nm, 0.064 AUFS
Injection : 8 μ L (0.05 ~ 1.4 mg/mL)

不整脈治療薬

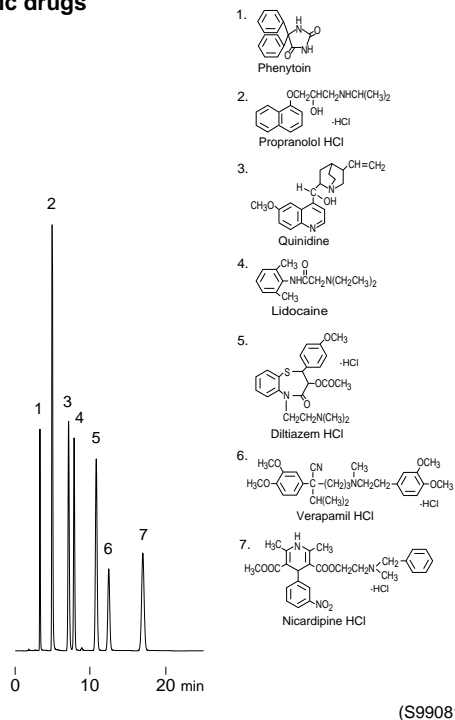
Antiarrhythmic drugs



Column : YMC-Pack Pro C18 (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : 20mM KH_2PO_4 - K_2HPO_4 (pH 6.9) / methanol (30/70)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.26 AUFS
Injection : 5 μ L (0.05 ~ 0.1 mg/mL)

不整脈治療薬

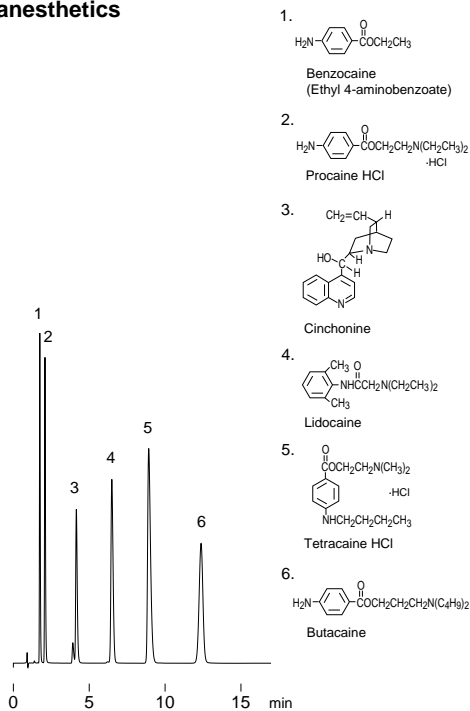
Antiarrhythmic drugs



Column : YMC-Pack Pro C4 (5 μ m, 12nm)
150 \times 4.6 mm I.D.
Eluent : 20mM KH_2PO_4 - K_2HPO_4 (pH 6.9) / methanol (40/60)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.26 AUFS
Injection : 5 μ L (0.05 ~ 0.1 mg/mL)

局所麻酔薬

Local anesthetics

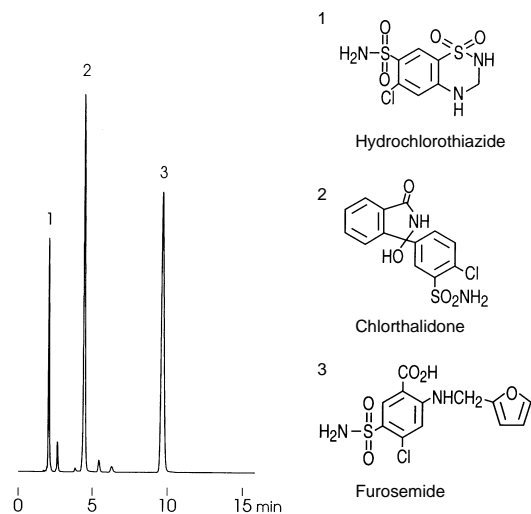


(J010302E)

Column : Hydrosphere C18 (3 μm, 12nm)
75 × 4.6 mm I.D.
Eluent : 20mM KH₂PO₄ - K₂HPO₄ (pH 6.9) / methanol (40/60)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.16 AUFS
Injection : 10 μL (0.02 ~ 0.5 mg/mL)

利尿薬

Diuretics

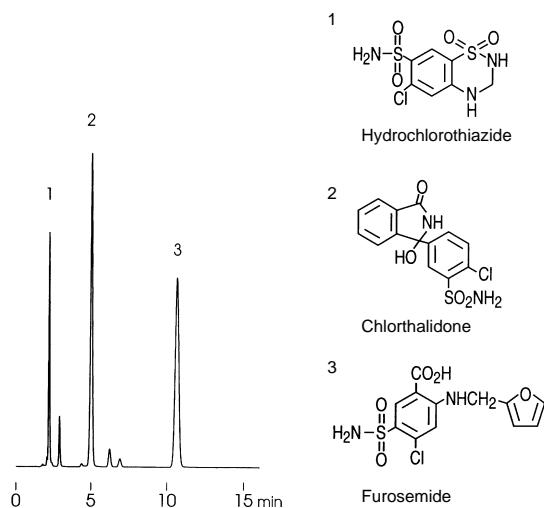


(A970425C)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM NH₄H₂PO₄ - H₃PO₄ (pH 3.2)/methanol (60/40)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 280 nm, 0.16 AUFS
Injection : 15 μL (0.015 ~ 0.2 mg/mL)

利尿薬

Diuretics

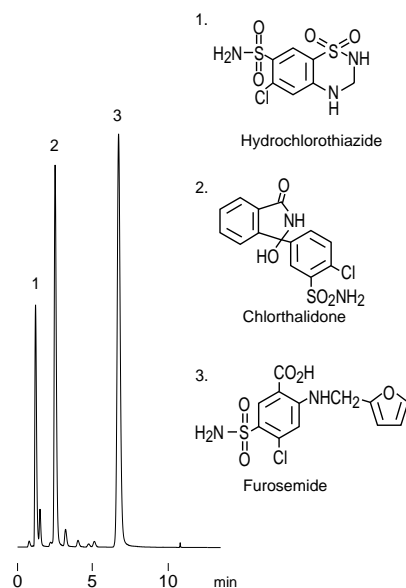


(A970426D)

Column : YMC-Pack ODS-AQ (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM NH₄H₂PO₄ - H₃PO₄ (pH 3.2)/methanol (60/40)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 280 nm, 0.16 AUFS
Injection : 15 μL (0.015 ~ 0.2 mg/mL)

利尿薬

Diuretics

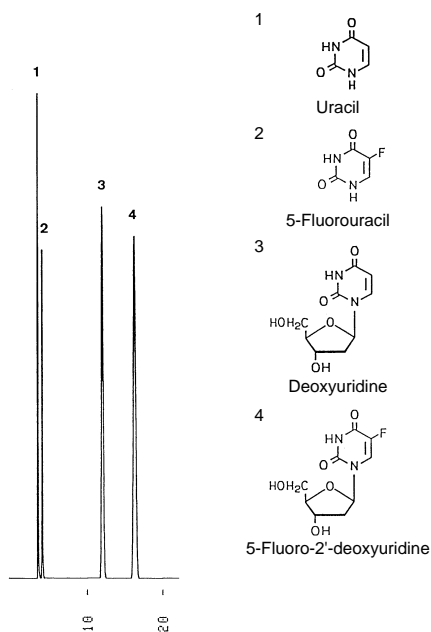


(A980716A)

Column : YMC-Pack Pro C18 (3 μm, 12nm)
75 × 2.0 mm I.D.
Eluent : methanol / 1% acetic acid (40/60)
Flow rate : 0.2 mL/min
Temperature : 37
Detection : UV at 280 nm, 0.08 AUFS
Injection : 3 μL (0.015 ~ 0.2 mg/mL)

制がん剤および関連化合物

Antineoplastic and related compounds

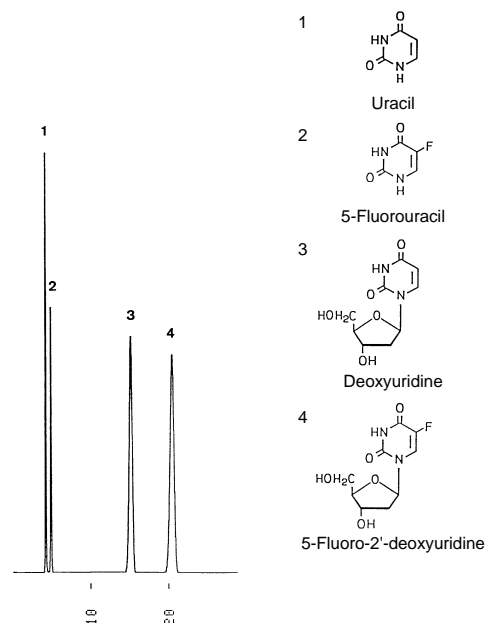


(T920924E)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : 10mM NH₄H₂PO₄
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.16 AUFS
Injection : 10 μ L (0.025 ~ 0.2 mg/mL)

制がん剤および関連化合物

Antineoplastic and related compounds

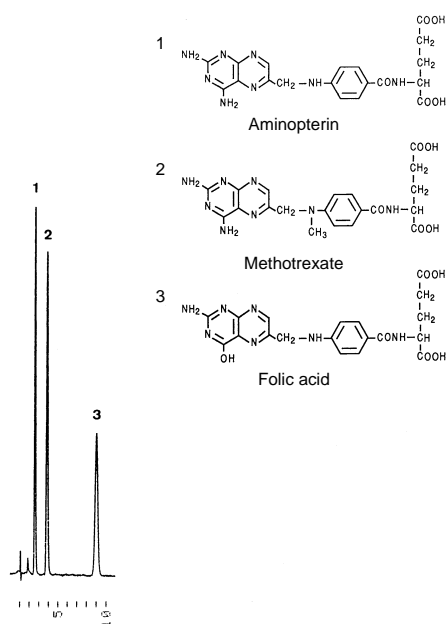


(T920924G)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : 10mM NH₄H₂PO₄
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.16 AUFS
Injection : 10 μ L (0.025 ~ 0.2 mg/mL)

葉酸及び葉酸拮抗物質

Folic acid and its antagonists

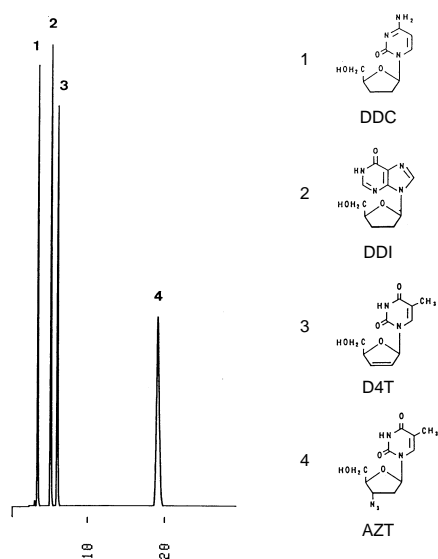


(O950411B)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
75 × 4.6 mm I.D.
Eluent : methanol/water/acetic acid (20/80/1)
Flow rate : 1.0 mL/min
Temperature : ambient(25)
Detection : UV at 300 nm, 0.04 AUFS
Injection : 5 μ L (16 μ g/mL)

抗H I Vヌクレオシド誘導体

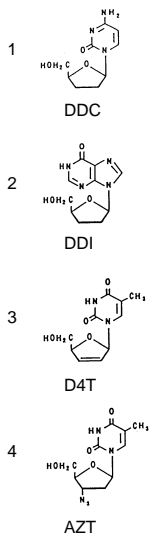
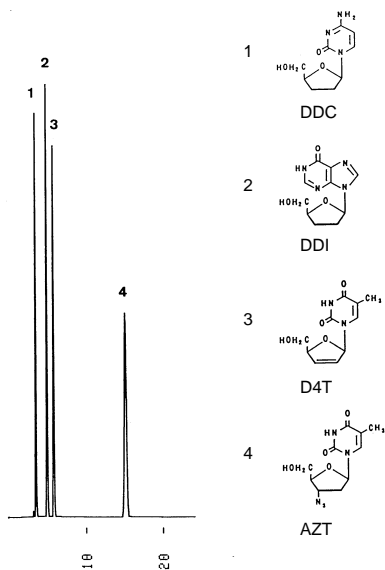
Anti-human immunodeficiency virus (HIV) agents



(K930311C)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/10mM KH₂PO₄ (10/60)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.16 AUFS
Injection : 7 μ L (0.125 mg/mL)

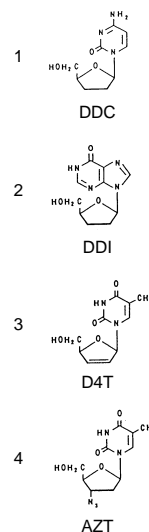
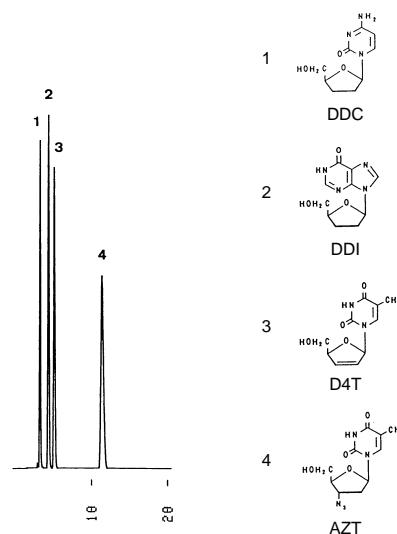
抗HIVヌクレオシド誘導体 Anti-human immunodeficiency virus (HIV) agents



(K930311A)

Column : YMC-Pack C₈ (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/10mM KH₂PO₄ (10/60)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.16 AUFS
Injection : 7 μL (0.125 mg/mL)

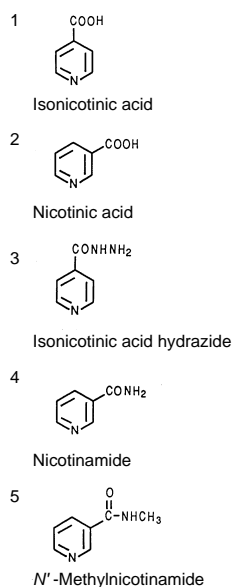
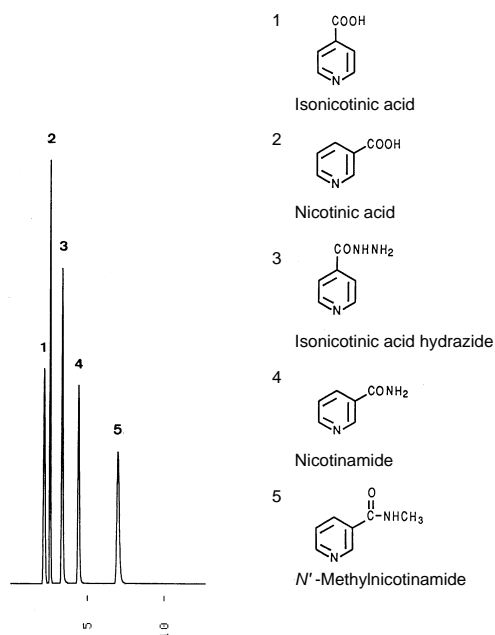
抗HIVヌクレオシド誘導体 Anti-human immunodeficiency virus (HIV) agents



(K930311F)

Column : YMC-Pack C₈ (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/10mM KH₂PO₄ (10/60)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.16 AUFS
Injection : 7 μL (0.125 mg/mL)

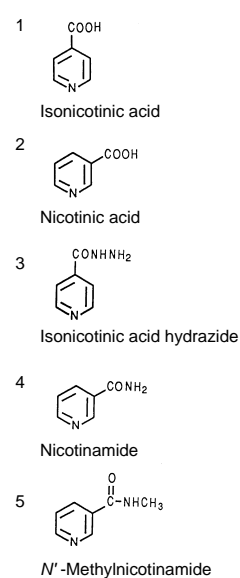
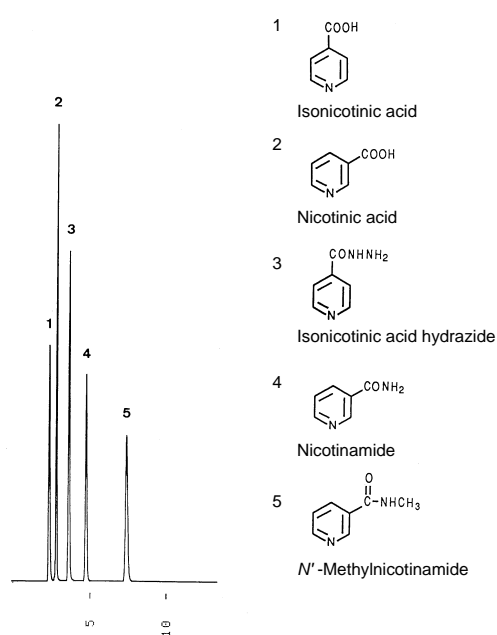
ニコチン酸構造類縁体 Nicotinic acid analogues



(K940125I)

Column : YMC-Pack ODS-A (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/20mM KH₂PO₄ (5/95)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 260 nm, 0.64 AUFS
Injection : 13 μL (0.2 mg/mL)

ニコチン酸構造類縁体 Nicotinic acid analogues

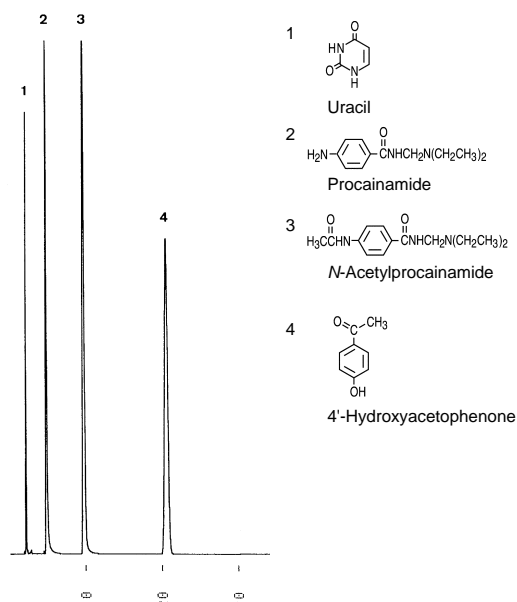


(K940125K)

Column : YMC-Pack C₈ (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/20mM KH₂PO₄ (5/95)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 260 nm, 0.64 AUFS
Injection : 13 μL (0.2 mg/mL)

塩基性化合物

Basic compounds

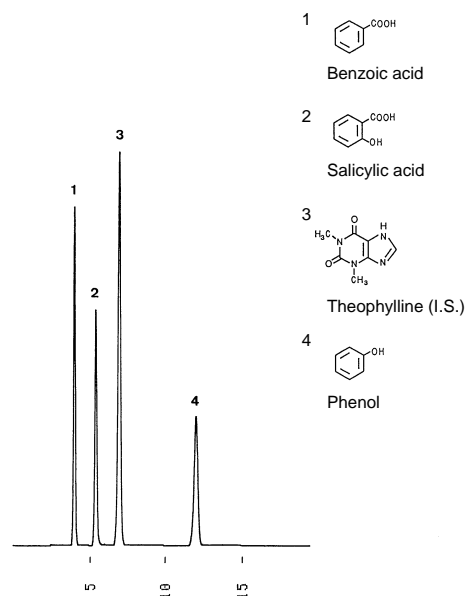


(T931217C)

Column : YMC-Pack ODS-AM (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM K₂HPO₄ - KH₂PO₄ (pH 6.9)/acetonitrile (92/8)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.32 AUFS
Injection : 10 μL (30 ~ 300 μg/mL)

殺菌薬

Disinfectants



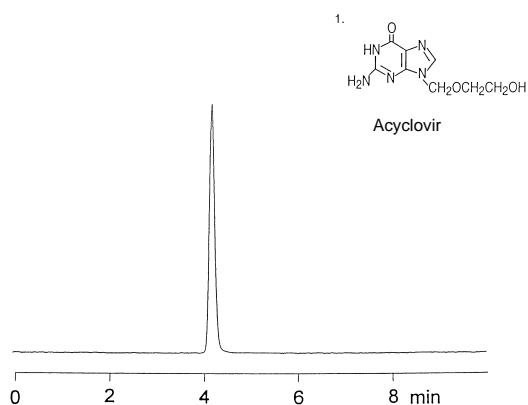
(S930617D)

Column : YMC-Pack ODS-AL (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 100mM KH₂PO₄ - Na₂HPO₄ (pH 7.0)/methanol (75/25)
Flow rate : 0.8 mL/min
Temperature : 30
Detection : UV at 270 nm, 0.13 AUFS
Injection : 3 μL (0.1 ~ 0.8 mg/mL)

日本薬局方第12改正記載条件

アシクロビル

Acyclovir

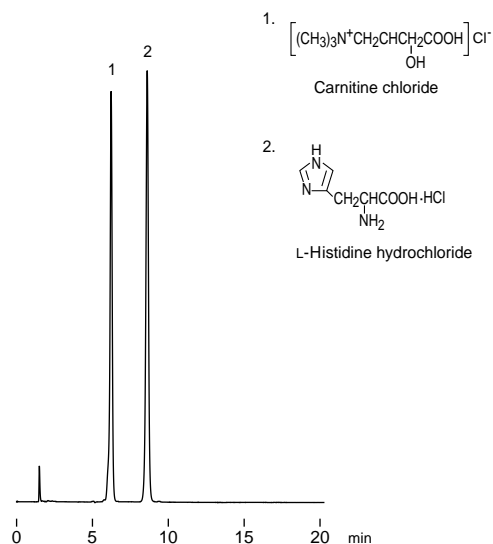


(J010528C)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile / 0.05% formic acid (3 / 97)
Flow rate : 1.5 mL/min
Detection : UV at 254 nm
Injection : 5 μL (0.1 mg/mL)

塩化カルニチン

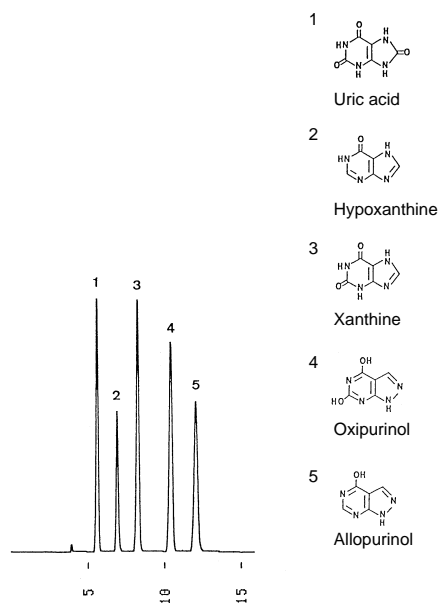
Carnitine chloride



(F000629A)

Column : Hydrosphere C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 50mM NaH₂PO₄-H₃PO₄ (pH2.6)
containing 15mM 1-pentanesulfonic acid sodium salt
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 210 nm, 0.064 AUFS
Injection : 4 μL (0.2 ~ 20 mg/mL)

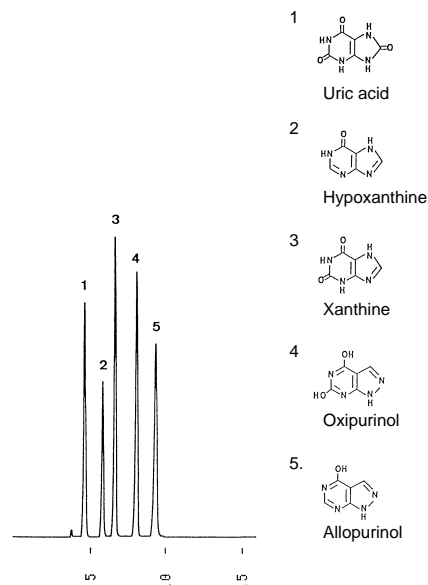
キサンチンオキシダーゼ阻害剤および関連化合物 Xanthine oxidase inhibitor and related compounds



(S930728J)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
150 × 4.6 mm I.D.
Eluent : 50mM NH₄H₂PO₄
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.51 AUFS
Injection : 8 μ L (0.05 ~ 0.2 mg/mL)

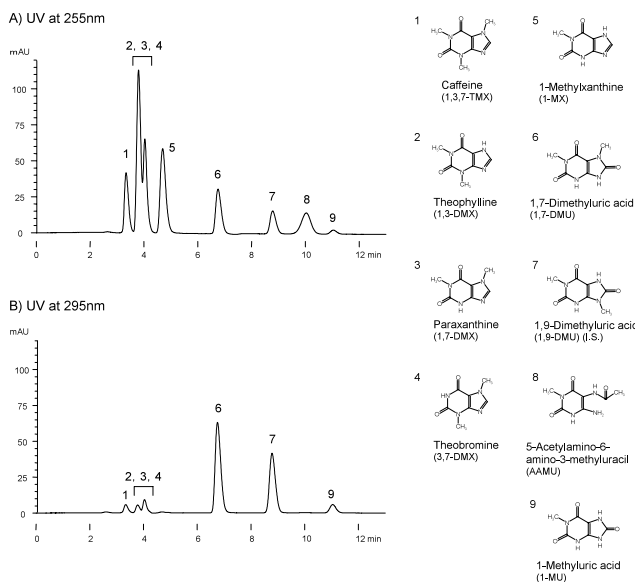
キサンチンオキシダーゼ阻害剤および関連化合物 Xanthine oxidase inhibitor and related compounds



(S930729B)

Column : J'sphere ODS-L80 (4 μ m, 8nm)
150 × 4.6 mm I.D.
Eluent : 50mM NH₄H₂PO₄
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.51 AUFS
Injection : 8 μ L (0.05 ~ 0.2 mg/mL)

カフェイン代謝物 Caffeine metabolites

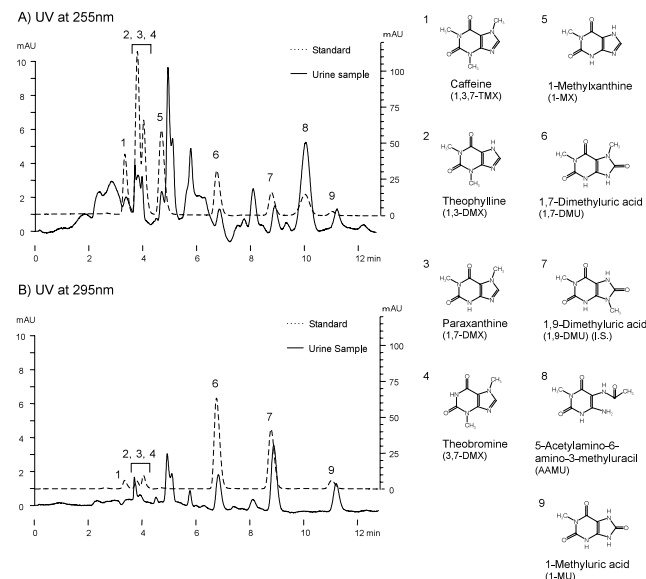


Courtesy of Takashi FURUTA, Ph.D., Tokyo University of Pharmacy and Life science

(F041213A)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/0.75% formic acid (4/1)
Flow rate : 1.0 mL/min
Temperature : ambient
Detection : A) UV at 255 nm, B) UV at 295nm
Injection : 10 μ L

尿中のカフェイン代謝物 Caffeine metabolites in human urine



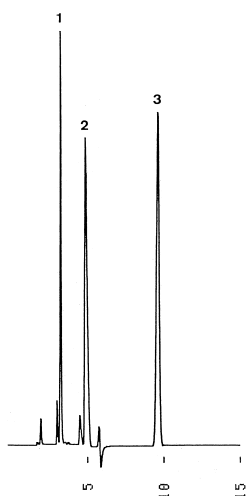
Courtesy of Takashi FURUTA, Ph.D., Tokyo University of Pharmacy and Life science

(F041213B)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : acetonitrile/0.75% formic acid (4/1)
Flow rate : 1.0 mL/min
Temperature : ambient
Detection : A) UV at 255 nm, B) UV at 295nm
Injection : Standard 10 μ L
Urine sample 10 μ L

プリン代謝物
Purine catabolites

1. Allantoin
2. Allantoic acid
3. Uric acid

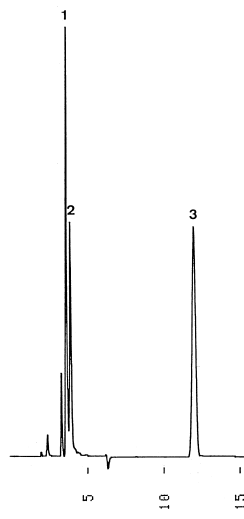


(G910607G)

Column : YMC-Pack ODS-AM (5 μm, 12nm)
 150 × 6.0 mm I.D.
 Eluent : 10mM CH₃COOH
 Flow rate : 1.0 mL/min
 Temperature : 30
 Detection : UV at 200 nm, 0.16 AUFS
 Injection : 4 μL (0.10 ~ 0.71 mg/mL)

プリン代謝物
Purine catabolites

1. Allantoin
2. Allantoic acid
3. Uric acid

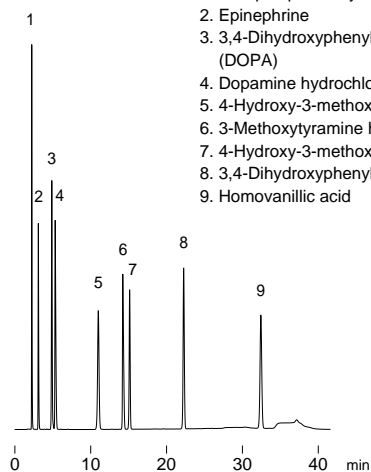


(G910618A)

Column : YMC-Pack ODS-AQ (5 μm, 12nm)
 150 × 6.0 mm I.D.
 Eluent : 10mM CH₃COOH
 Flow rate : 1.0 mL/min
 Temperature : 30
 Detection : UV at 200 nm, 0.16 AUFS
 Injection : 4 μL (0.10 ~ 0.71 mg/mL)

カテコールアミン
Catecholamines

1. Norepinephrine hydrochloride
2. Epinephrine
3. 3,4-Dihydroxyphenylalanine (DOPA)
4. Dopamine hydrochloride
5. 4-Hydroxy-3-methoxymandelic acid
6. 3-Methoxytyramine hydrochloride
7. 4-Hydroxy-3-methoxyphenylglycol
8. 3,4-Dihydroxyphenylacetic acid
9. Homovanillic acid

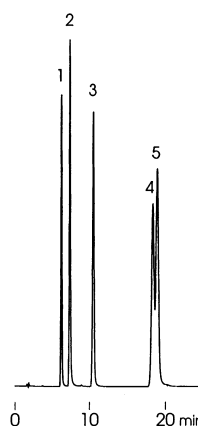


(F000817A)

Column : Hydrosphere C18 (5 μm, 12nm)
 150 × 4.6 mm I.D.
 Eluent : A) 50mM KH₂PO₄-H₃PO₄ (pH 3.1)
 B) 50mM KH₂PO₄-H₃PO₄ (pH 3.1)/acetonitrile (90/10)
 0%B (0-5min), 0-100%B (5-25min, linear), 100%B (25-35min)
 Flow rate : 1.0 mL/min
 Temperature : 30
 Detection : UV at 280 nm, 0.64 AUFS
 Injection : 10 μL (0.15 ~ 0.25 mg/mL)

馬尿酸類
Hippuric and methylhippuric acids

- 1 OC(O)C(=O)c1ccccc1
Mandelic acid
- 2 OC(=O)CNc1ccccc1
Hippuric acid
- 3 OC(=O)CNc1ccc(C)cc1
o-Methylhippuric acid
- 4 OC(=O)CNc1ccc(C)cc1
m-Methylhippuric acid
- 5 OC(=O)CNc1ccc(C)cc1
p-Methylhippuric acid

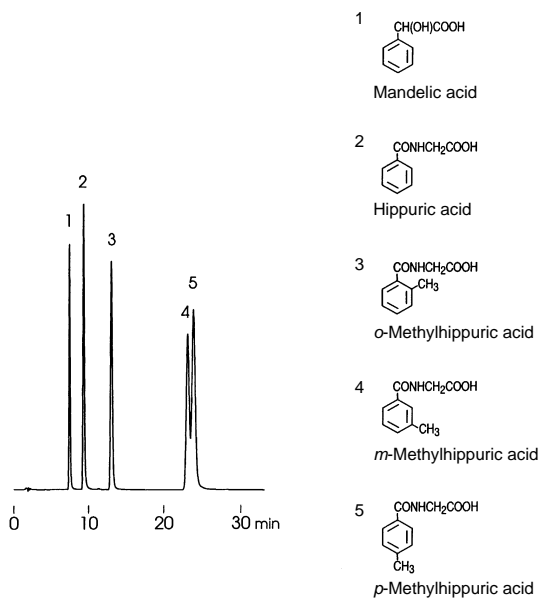


(A961114A)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
 150 × 4.6 mm I.D.
 Eluent : 20mM NH₄H₂PO₄ - H₃PO₄ (pH 3.2)/methanol (80/20)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 225 nm, 0.16 AUFS
 Injection : 10 μL (0.04 ~ 0.07 mg/mL)

馬尿酸類

Hippuric and methylhippuric acids

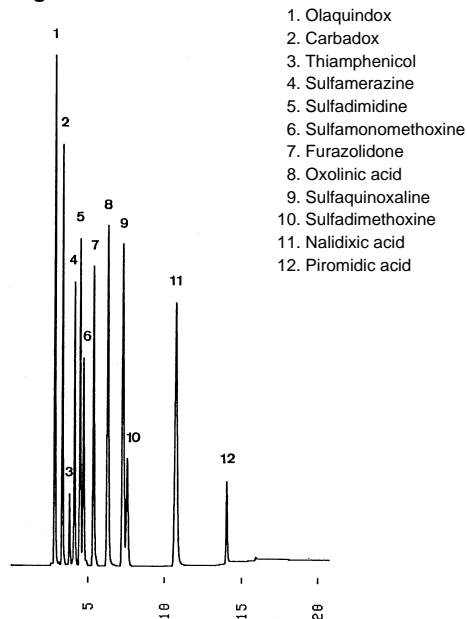


(A961119A)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : 20mM $\text{NH}_4\text{H}_2\text{PO}_4$ - H_3PO_4 (pH 3.2)/methanol (80/20)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 225 nm, 0.16 AUFS
Injection : 10 μ L (0.04 ~ 0.07 mg/mL)

合成抗菌剤

Antibacterial agents

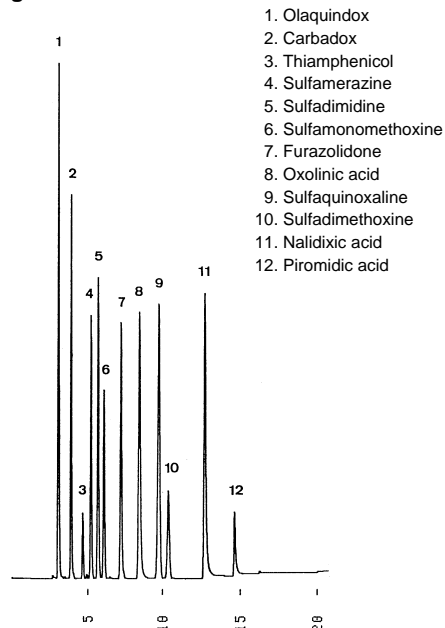


(K940614B)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
250 × 4.6 mm I.D.
Eluent : A)acetonitrile/50mM NH₄H₂PO₄ (10/90)
B)acetonitrile/50mM NH₄H₂PO₄ (80/20)
25%B (0-5min), 25-100%B (5-15min), 100%B (15-20min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 240 nm, 0.32 AUFS
Injection : 10 μ L (0.05 mg/mL)

合成抗菌剤

Antibacterial agents

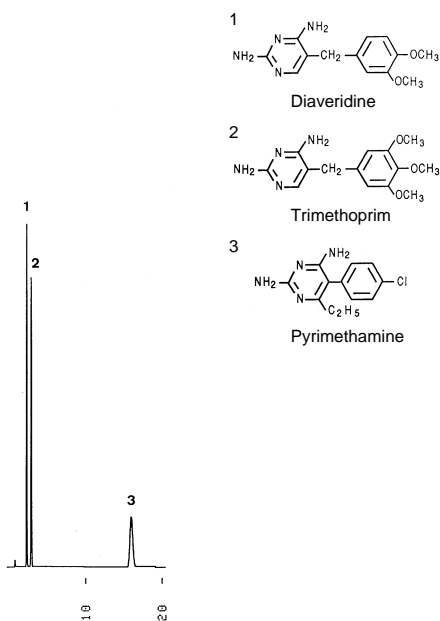


(K940615C)

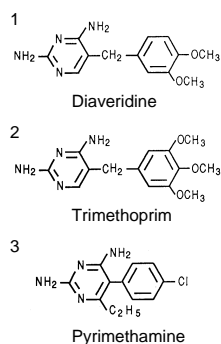
Column : J'sphere ODS-L80 (4 μ m, 8nm)
250 × 4.6 mm I.D.
Eluent : A)acetonitrile/50mM NH₄H₂PO₄ (10/90)
B)acetonitrile/50mM NH₄H₂PO₄ (80/20)
25%B (0-5min), 25-100%B (5-15min), 100%B (15-20min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 240 nm, 0.32 AUFS
Injection : 10 μ L (0.05 mg/mL)

合成抗菌剤

Antibacterial agents

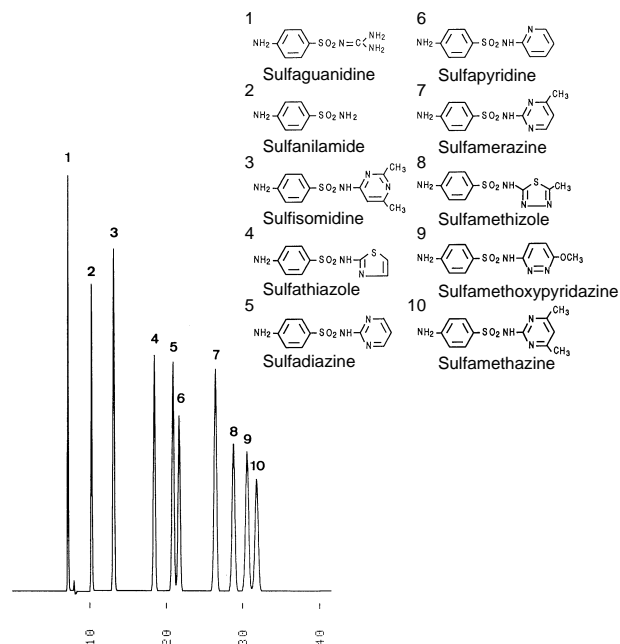


(O950320G)

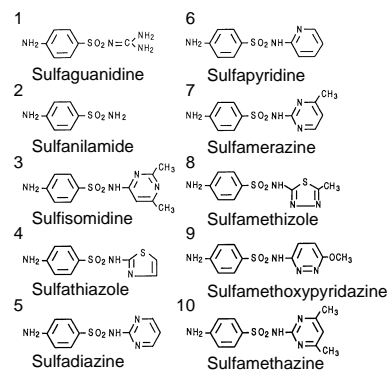


サルファ剤

Sulfonamides



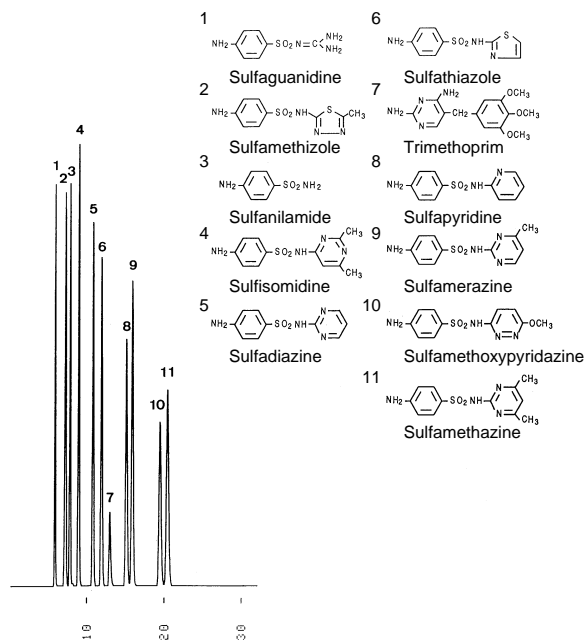
(O950306E)



Column : J'sphere ODS-M80 (4 μ m, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/50mM NH₄H₂PO₄ (15/85)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.16 AUFS
Injection : 5 μ L (20 μ g/mL)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
250 × 4.6 mm I.D.
Eluent : THF/50mM NH₄H₂PO₄ (10/90)
Flow rate : 0.5 mL/min
Temperature : 37
Detection : UV at 275 nm, 0.16 AUFS
Injection : 3 μ L (50 μ g/mL)

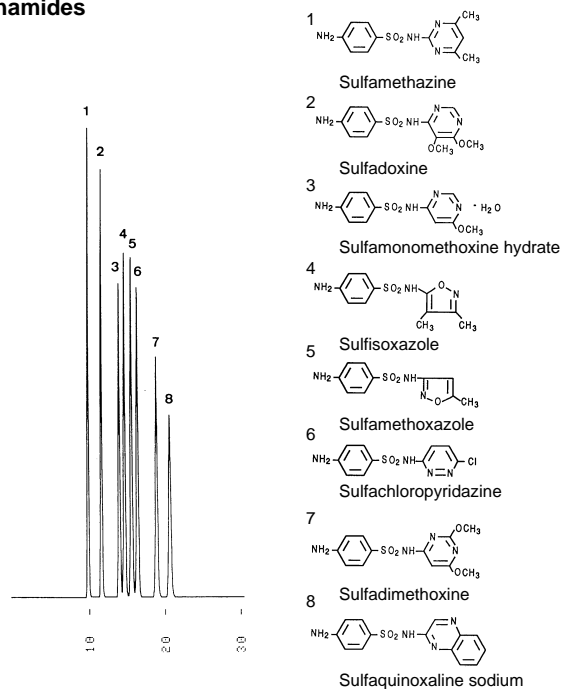
サルファ剤 Sulfonamides



(O950324L)

Column : J'sphere ODS-H80 (4 μm, 8nm)
250 × 4.6 mm I.D.
Eluent : 50mM NH₄H₂PO₄ - (NH₄)₂HPO₄ (pH 6.2)/THF (90/10)
Flow rate : 0.5 mL/min
Temperature : 37
Detection : UV at 275 nm, 0.16 AUFS
Injection : 10 μL (18 μg/mL)

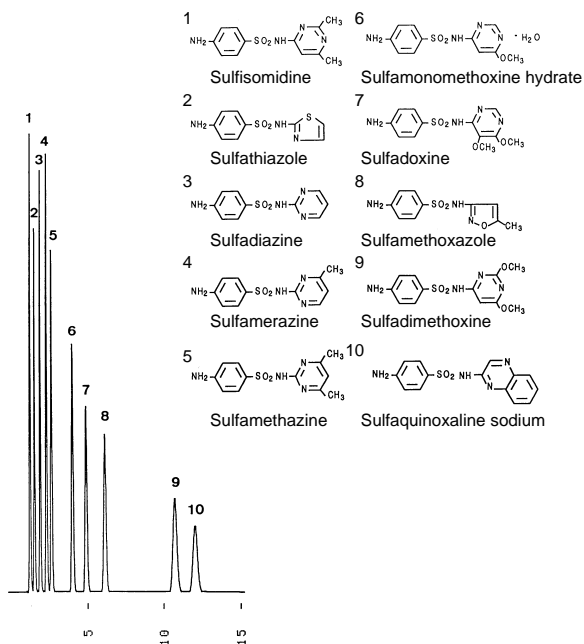
サルファ剤 Sulfonamides



(O950302C)

Column : YMC-Pack ODS-A (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : THF/water/acetic acid (30/70/1)
Flow rate : 0.5 mL/min
Temperature : 37
Detection : UV at 275 nm, 0.16 AUFS
Injection : 5 μL (42 μg/mL)

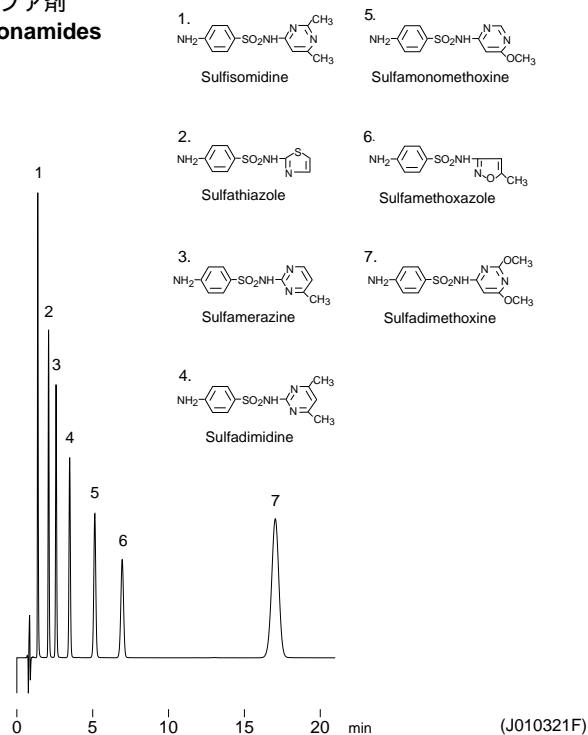
サルファ剤 Sulfonamides



(O950217D)

Column : J'sphere ODS-M80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : THF/acetonitrile/50mM NH₄H₂PO₄ (15/5/80)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 275 nm, 0.16 AUFS
Injection : 3 μL (50 μg/mL)

サルファ剤 Sulfonamides

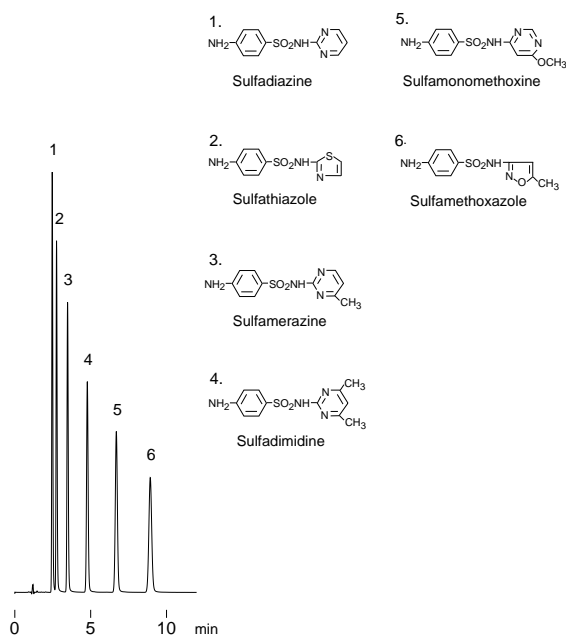


(J010321F)

Column : Hydrosphere C18 (3 μm, 12nm)
50 × 4.6 mm I.D.
Eluent : 10mM CH₃COOH - CH₃COONH₄ (pH 4.6) / acetonitrile (85/15)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 275 nm, 0.16 AUFS
Injection : 10 μL (0.01 ~ 0.04 mg/mL)

サルファ剤

Sulfonamides



(J010130D)

Column : Hydrosphere C18 (3 μ m, 12nm)
75 \times 2.0 mm I.D.

Eluent : 10mM CH₃COOH - CH₃COONH₄ (pH 4.6) / acetonitrile (85/15)

Flow rate : 0.2 mL/min

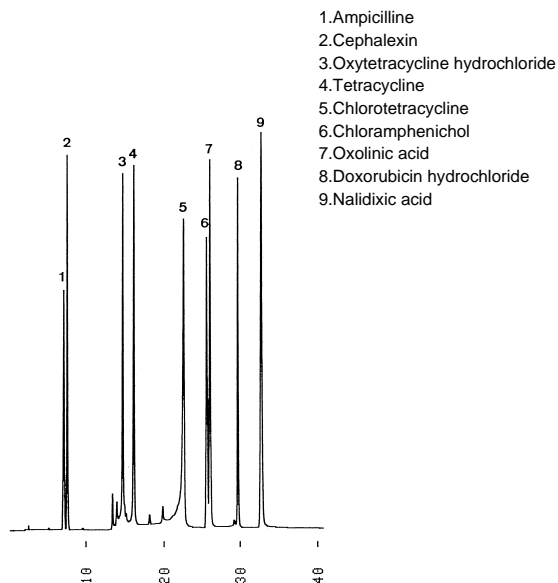
Temperature : 37

Detection : UV at 275 nm, 0.16 AUFS

Injection : 2 μ L (0.02 mg/mL)

抗生物質

Antibiotics



(G910523M)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 \times 4.6 mm I.D.

Eluent : A) acetonitrile/50mM NH₄H₂PO₄ (10/90)
B) acetonitrile/50mM NH₄H₂PO₄ (50/50)
0-55%B (0-30min, linear), 55%B (30-40min)

Flow rate : 1.0 mL/min

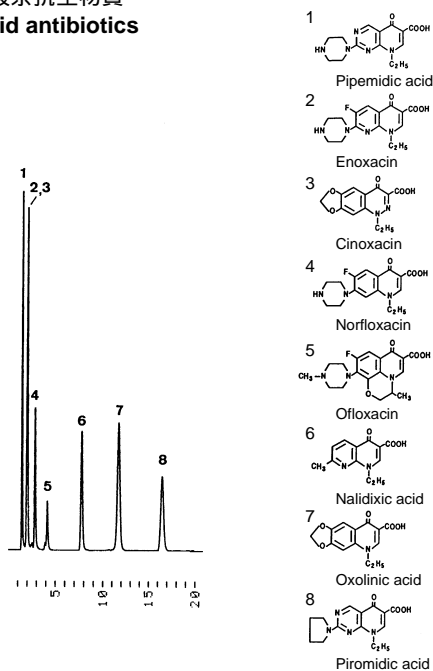
Temperature : 30

Detection : UV at 250 nm, 0.16 AUFS

Injection : 15 μ L (0.01 ~ 0.15 mg/mL)

ナリジクス酸系抗生物質

Nalidixic acid antibiotics



(O950428A)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 \times 4.6 mm I.D.

Eluent : 50mM NH₄H₂PO₄ - (NH₄)₂HPO₄ (pH 6.7)/tetrahydrofuran (90/10) containing 20mM TBA·Br

Flow rate : 1.0 mL/min

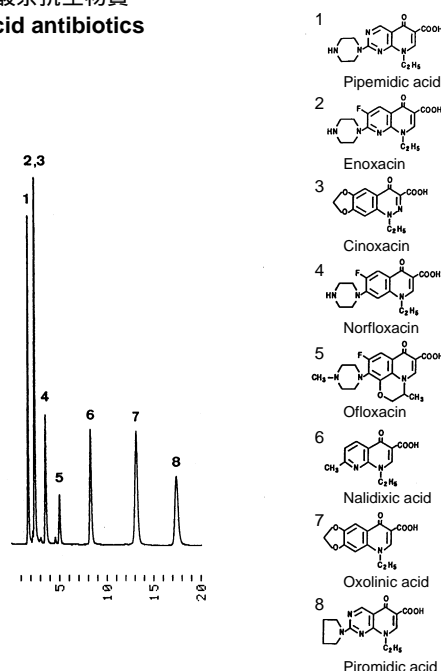
Temperature : ambient (25)

Detection : UV at 260 nm, 0.32 AUFS

Injection : 5 μ L (0.03 mg/mL)

ナリジクス酸系抗生物質

Nalidixic acid antibiotics



(O950428D)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 \times 4.6 mm I.D.

Eluent : 50mM NH₄H₂PO₄ - (NH₄)₂HPO₄ (pH 6.7)/tetrahydrofuran (90/10) containing 20mM TBA·Br

Flow rate : 1.0 mL/min

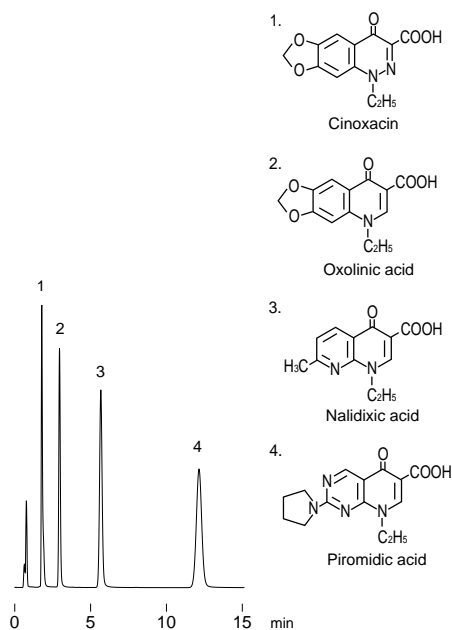
Temperature : ambient (25)

Detection : UV at 260 nm, 0.32 AUFS

Injection : 5 μ L (0.03 mg/mL)

ナリジクス酸系抗生物質

Nalidixic acid antibiotics

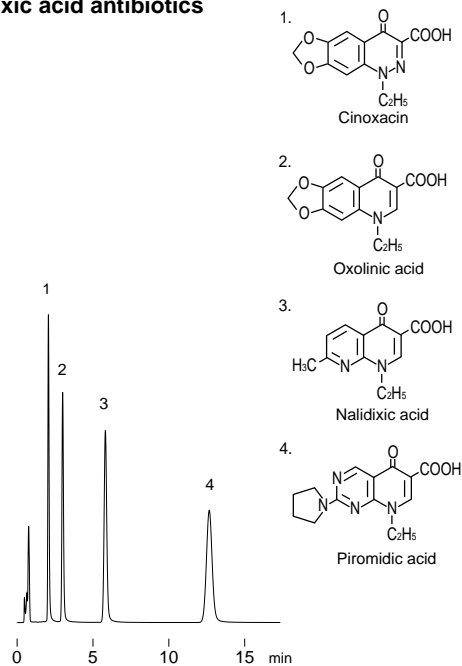


(A010324C)

Column : Hydrosphere C18 (3 μm, 12nm)
50 × 2.0 mm I.D.
Eluent : acetonitrile / 50mM NaH₂PO₄ (25/75)
Flow rate : 0.2 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.128 AUFS
Injection : 1 μL (0.02 ~ 0.1 mg/mL)

ナリジクス酸系抗生物質

Nalidixic acid antibiotics

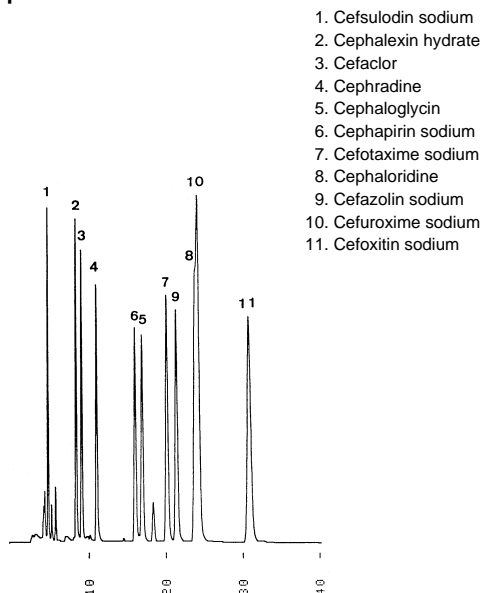


(A010324A)

Column : Hydrosphere C18 (3 μm, 12nm)
50 × 2.0 mm I.D.
Eluent : 10mM CH₃COOH - CH₃COONH₄(pH 4.3) / acetonitrile
(75/25)
Flow rate : 0.2 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.128 AUFS
Injection : 1 μL (0.02 ~ 0.1 mg/mL)

セフェム系抗生物質

Cephalosporin antibiotics

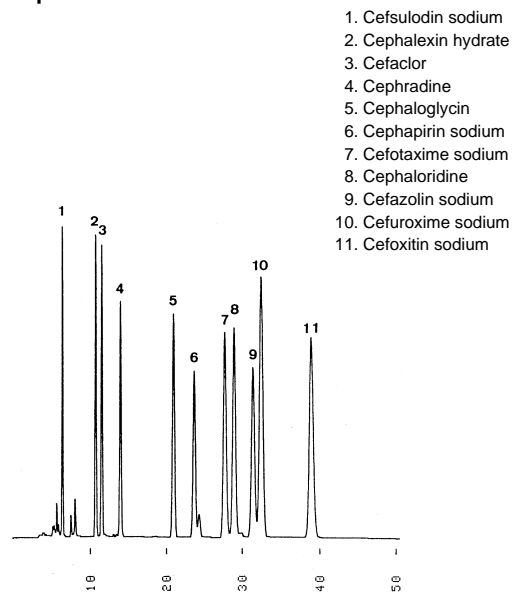


(O940719A)

Column : J'sphere ODS-H80 (4 μm, 8nm)
250 × 4.6 mm I.D.
Eluent : acetonitrile/100mM KH₂PO₄ (10/90)
Flow rate : 0.8 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 5 μL (0.12 ~ 0.35 mg/mL)

セフェム系抗生物質

Cephalosporin antibiotics



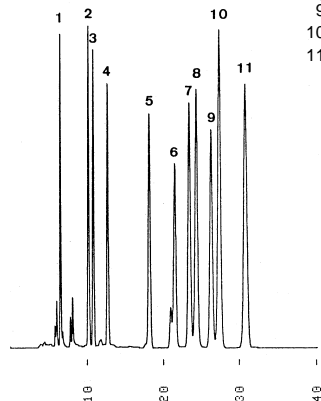
(O940715F)

Column : J'sphere ODS-M80 (4 μm, 8nm)
250 × 4.6 mm I.D.
Eluent : acetonitrile/100mM KH₂PO₄ (10/90)
Flow rate : 0.8 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 5 μL (0.12 ~ 0.35 mg/mL)

セフェム系抗生物質

Cephalosporin antibiotics

1. Cefsulodin sodium
2. Cephalexin hydrate
3. Cefaclor
4. Cephradine
5. Cephaloglycin
6. Cephapirin sodium
7. Cefotaxime sodium
8. Cephaloridine
9. Cefazolin sodium
10. Cefuroxime sodium
11. Cefoxitin sodium

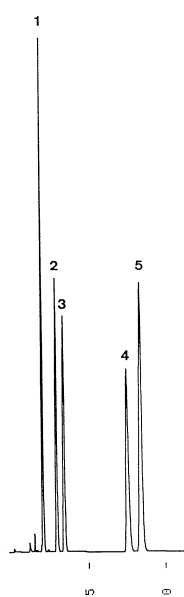
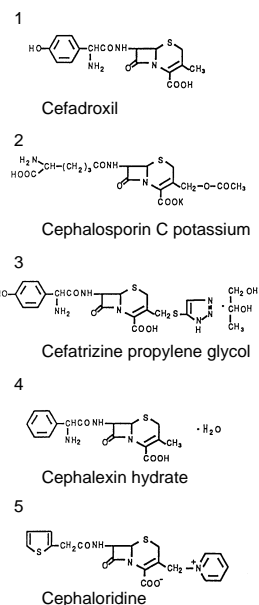


(O940718B)

Column : J'sphere ODS-L80 (4 μm, 8nm)
 250 × 4.6 mm I.D.
 Eluent : acetonitrile/100mM KH₂PO₄ (10/90)
 Flow rate : 0.8 mL/min
 Temperature : 37
 Detection : UV at 260 nm, 0.16 AUFS
 Injection : 5 μL (0.12 ~ 0.35 mg/mL)

セフェム系抗生物質

Cephalosporin antibiotics

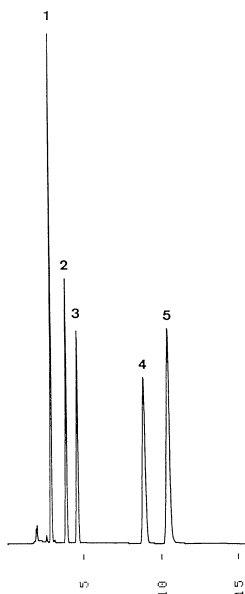
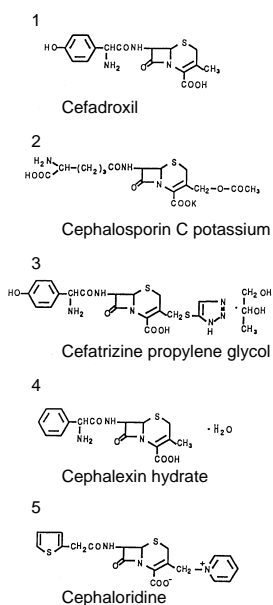


(O940927B)

Column : J'sphere ODS-H80 (4 μm, 8nm)
 150 × 4.6 mm I.D.
 Eluent : methanol/water/acetic acid (10/85/5)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 260 nm, 0.16 AUFS
 Injection : 6 μL (0.2 mg/mL)

セフェム系抗生物質

Cephalosporin antibiotics

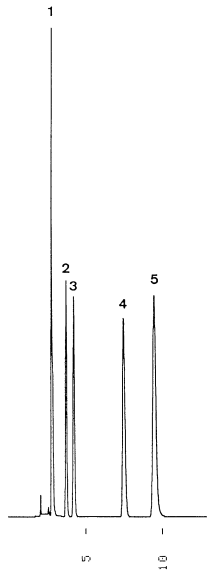
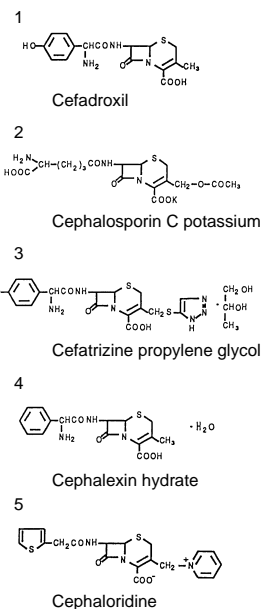


(O940927C)

Column : J'sphere ODS-M80 (4 μm, 8nm)
 150 × 4.6 mm I.D.
 Eluent : methanol/water/acetic acid (10/85/5)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 260 nm, 0.16 AUFS
 Injection : 6 μL (0.2 mg/mL)

セフェム系抗生物質

Cephalosporin antibiotics

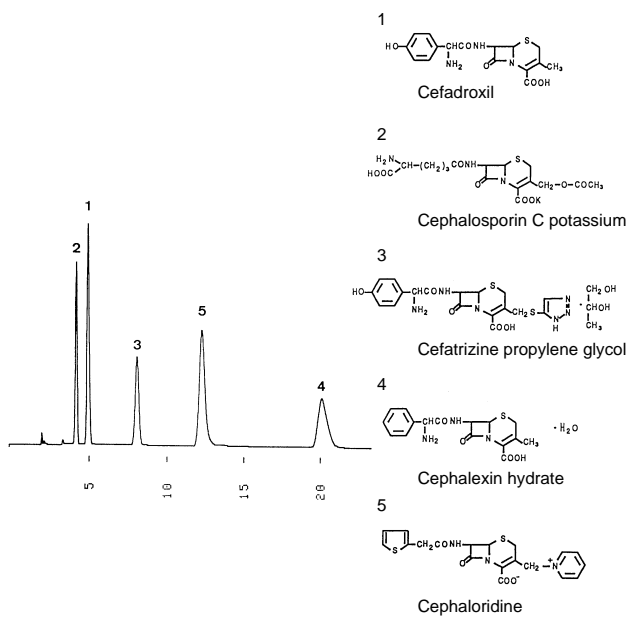


(O940927I)

Column : J'sphere ODS-L80 (4 μm, 8nm)
 150 × 4.6 mm I.D.
 Eluent : methanol/water/acetic acid (10/85/5)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 260 nm, 0.16 AUFS
 Injection : 6 μL (0.2 mg/mL)

セフェム系抗生物質

Cephalosporin antibiotics

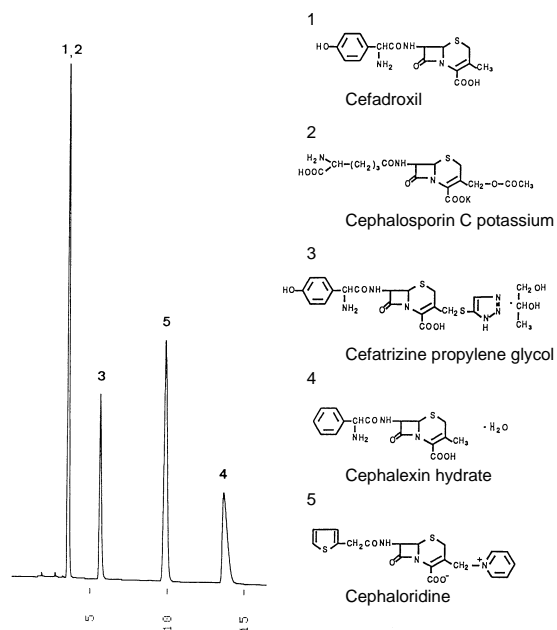


(O940927G)

Column : YMC-Pack ODS-AQ (5 μ m, 12nm)
 150 × 4.6 mm I.D.
 Eluent : methanol/water/acetic acid (10/85/5)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 260 nm, 0.16 AUFS
 Injection : 6 μ L (0.2 mg/mL)

セフェム系抗生物質

Cephalosporin antibiotics

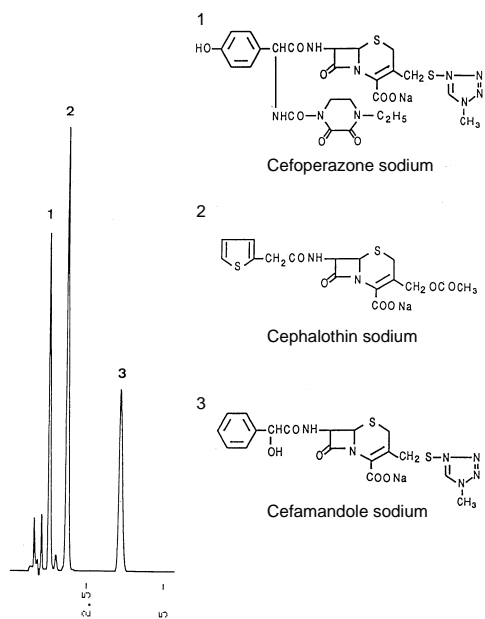


(O941025E)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
 150 × 4.6 mm I.D.
 Eluent : methanol/water/acetic acid (10/85/5)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 260 nm, 0.16 AUFS
 Injection : 6 μ L (0.2 mg/mL)

セフェム系抗生物質

Cephalosporin antibiotics

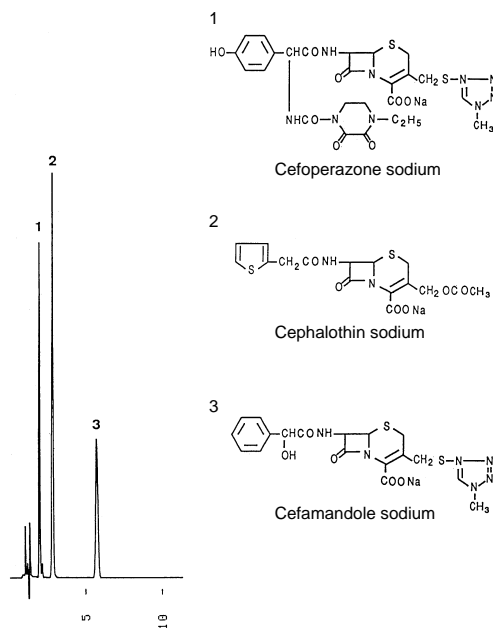


(O940928P)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
 75 × 4.6 mm I.D.
 Eluent : THF/50mM NH₄H₂PO₄ (15/85)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 260 nm, 0.16 AUFS
 Injection : 6 μ L (0.17 mg/mL)

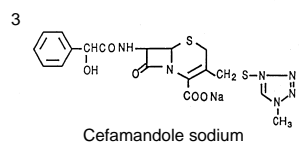
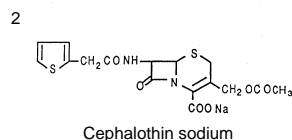
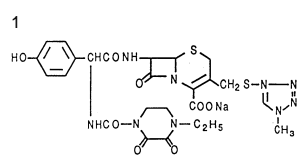
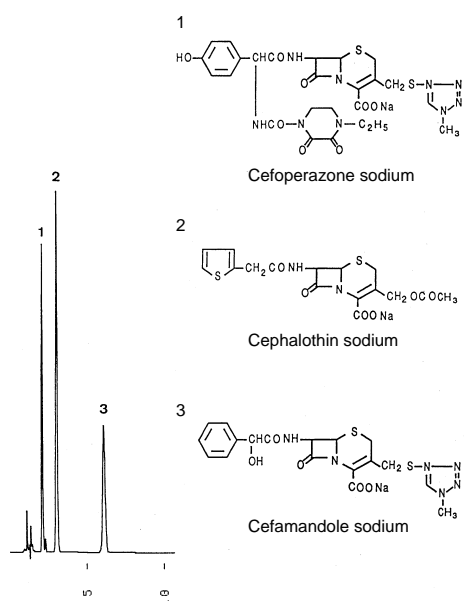
セフェム系抗生物質

Cephalosporin antibiotics



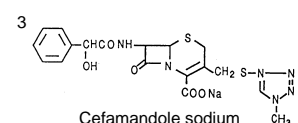
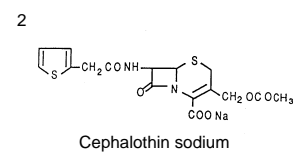
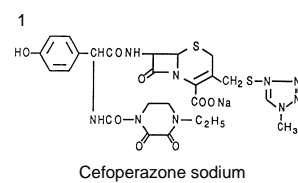
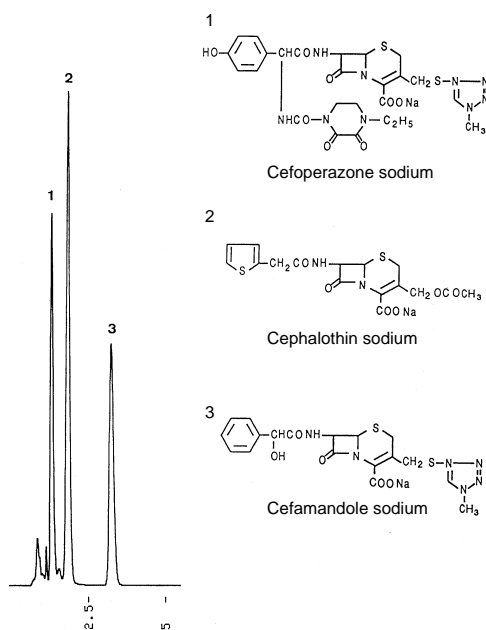
(O940928Q)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
 75 × 4.6 mm I.D.
 Eluent : THF/50mM NH₄H₂PO₄ (15/85)
 Flow rate : 1.0 mL/min
 Temperature : 37
 Detection : UV at 260 nm, 0.16 AUFS
 Injection : 6 μ L (0.17 mg/mL)

セフェム系抗生物質
Cephalosporin antibiotics


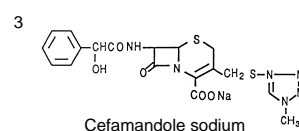
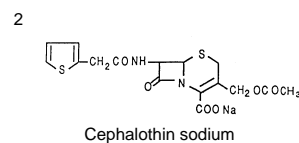
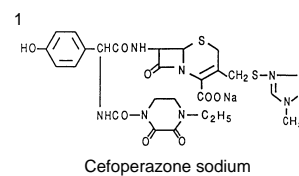
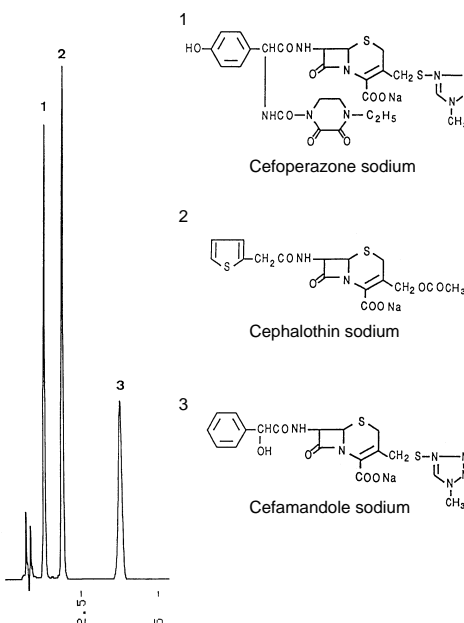
(O940928R)

Column : J'sphere ODS-L80 (4 μ m, 8nm)
75 × 4.6 mm I.D.
Eluent : THF/50mM NH₄H₂PO₄ (15/85)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 6 μ L (0.17 mg/mL)

セフェム系抗生物質
Cephalosporin antibiotics


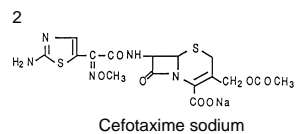
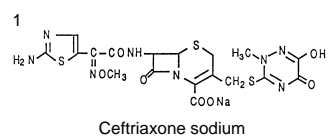
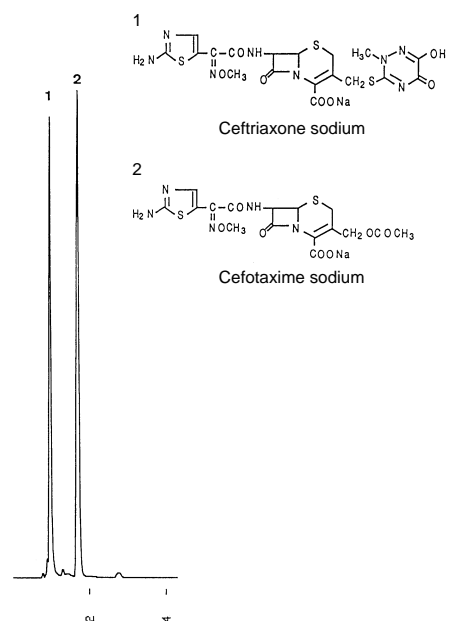
(O940929D)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
75 × 2.0 mm I.D.
Eluent : THF/50mM NH₄H₂PO₄ (15/85)
Flow rate : 0.2 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 3 μ L (0.17 mg/mL)

セフェム系抗生物質
Cephalosporin antibiotics


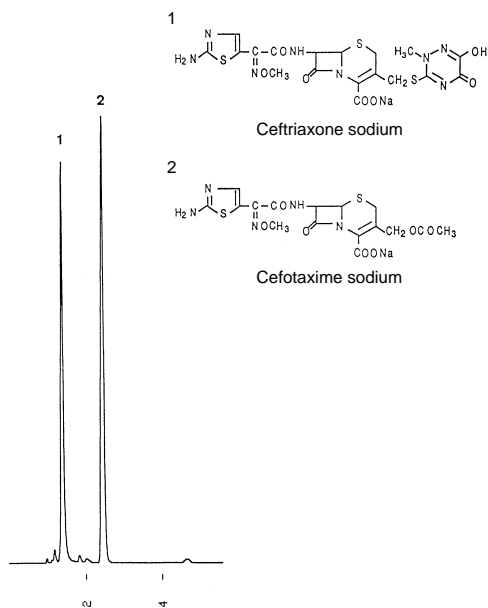
(O940928S)

Column : YMC-Pack ODS-A (3 μ m, 12nm)
50 × 4.6 mm I.D.
Eluent : THF/50mM NH₄H₂PO₄ (15/85)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 6 μ L (0.17 mg/mL)

セフェム系抗生物質
Cephalosporin antibiotics


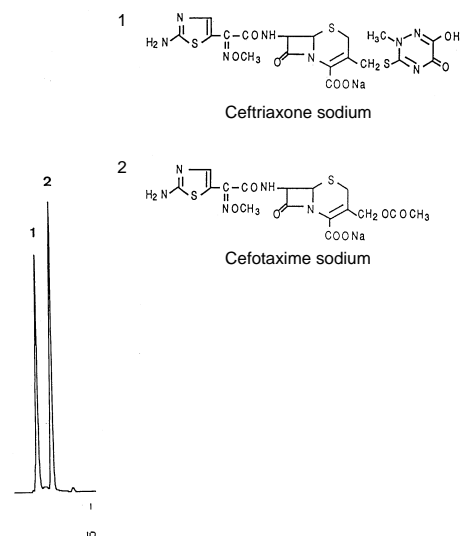
(O940928G)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
75 × 4.6 mm I.D.
Eluent : methanol/50mM NH₄H₂PO₄ (30/70)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 5 μ L (0.08, 0.16 mg/mL)

セフェム系抗生物質
Cephalosporin antibiotics


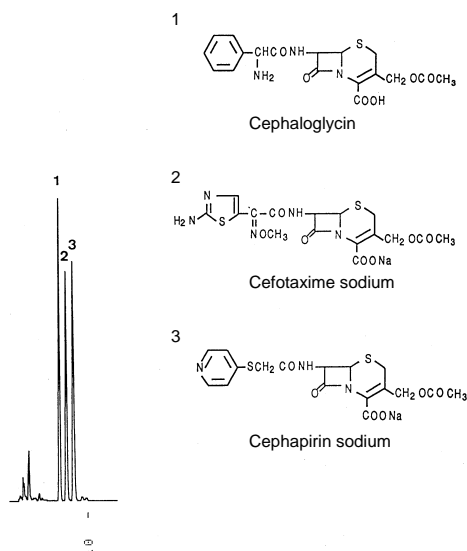
(O940928F)

Column : J'sphere ODS-M80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : methanol/50mM NH₄H₂PO₄ (30/70)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 5 μL (0.08, 0.16 mg/mL)

セフェム系抗生物質
Cephalosporin antibiotics


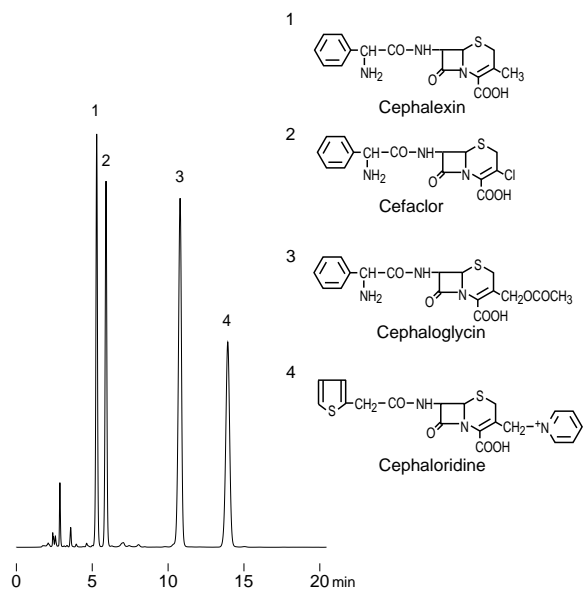
(O940929K)

Column : J'sphere ODS-H80 (4 μm, 8nm)
75 × 2.0 mm I.D.
Eluent : methanol/50mM NH₄H₂PO₄ (30/70)
Flow rate : 0.2 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 3 μL (0.08, 0.16 mg/mL)

セフェム系抗生物質
Cephalosporin antibiotics


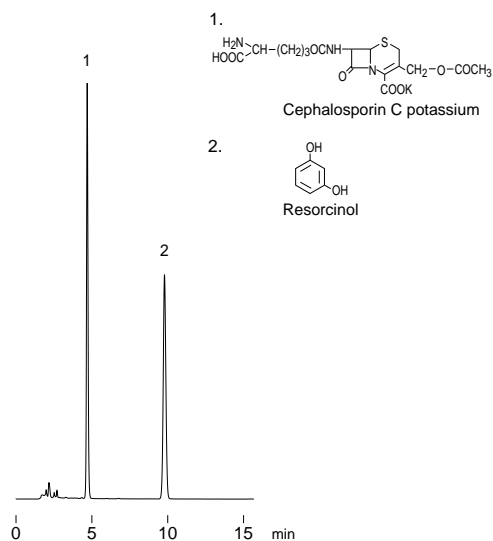
(O940720A)

Column : J'sphere ODS-M80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/100mM KH₂PO₄ (10/90)
Flow rate : 0.8 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.64 AUFS
Injection : 5 μL (0.5 mg/mL)

セフェム系抗生物質
Cephalosporin antibiotics


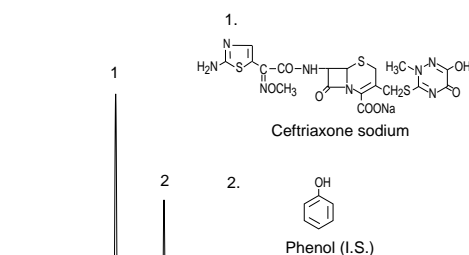
(S000717B)

Column : Hydrosphere C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/20mM KH₂PO₄ (10/90)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.32 AUFS
Injection : 15 μL (0.1 ~ 0.2 mg/mL)

セファロsporin C
Cephalosporin C


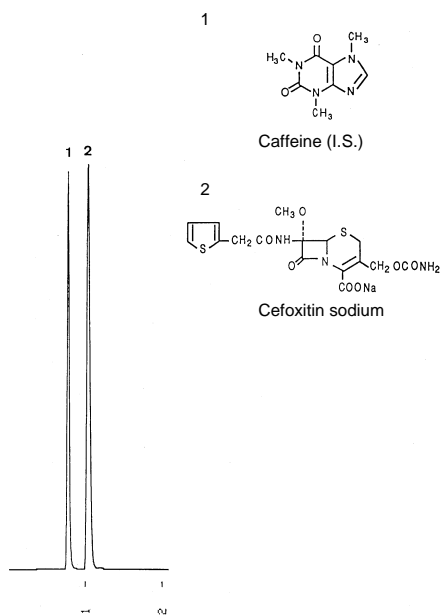
(S000714B)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/20mM KH₂PO₄ (5/95)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 10 μ L (0.2 mg/mL)

セフトリアキソン
Ceftriaxone


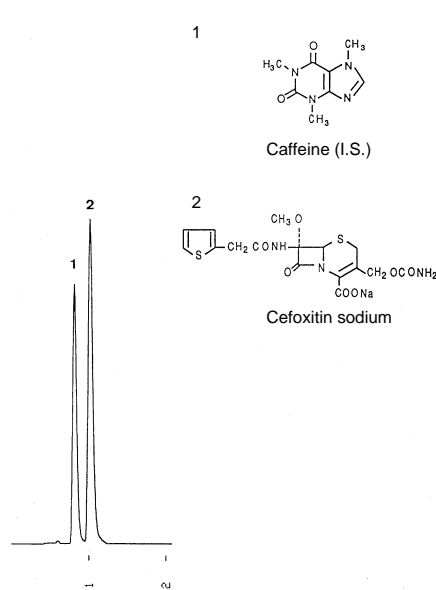
(S000726B)

Column : Hydrosphere C18 (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol / 10mM H₃PO₄ (25/75)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.32 AUFS
Injection : 10 μ L (0.1, 0.4 mg/mL)

セフォキシチンナトリウム
Cefoxitin sodium


(O940728M)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/50mM KH₂PO₄ (20/80)
Flow rate : 1.8 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.32 AUFS
Injection : 1.2 μ L (8, 12 mg/mL)

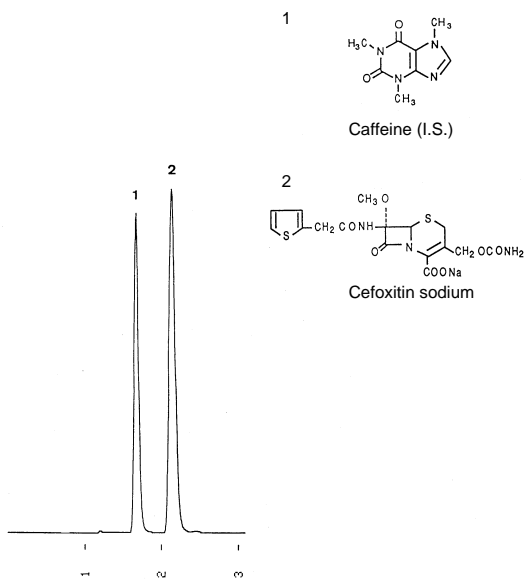
セフォキシチンナトリウム
Cefoxitin sodium


(O940728P)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
75 × 2.0 mm I.D.
Eluent : acetonitrile/50mM KH₂PO₄ (20/80)
Flow rate : 0.34 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.32 AUFS
Injection : 1.2 μ L (1.6, 2.4 mg/mL)

セフォキシチンナトリウム

Cefoxitin sodium

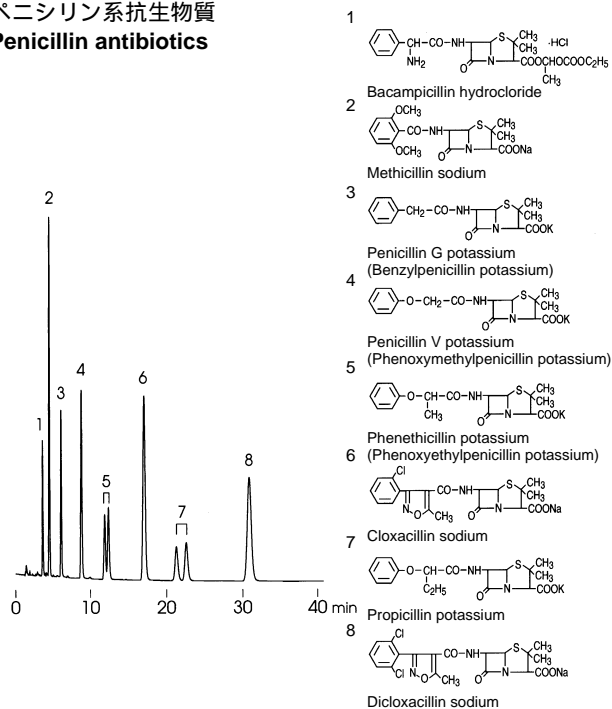


(O940729A)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 2.0 mm I.D.
Eluent : acetonitrile/50mM KH₂PO₄ (20/80)
Flow rate : 0.34 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.32 AUFS
Injection : 1.2 μL (1.6, 2.4 mg/mL)

ペニシリン系抗生物質

Penicillin antibiotics

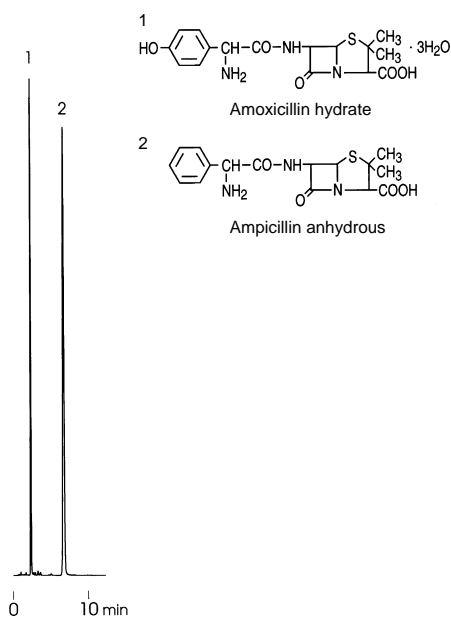


(O950908A)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : 50mM NaH₂PO₄ - H₃PO₄ (pH 2.3)/acetonitrile (67/33)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.26 AUFS
Injection : 8 μL (0.13 mg/mL)

ペニシリン系抗生物質

Penicillin antibiotics

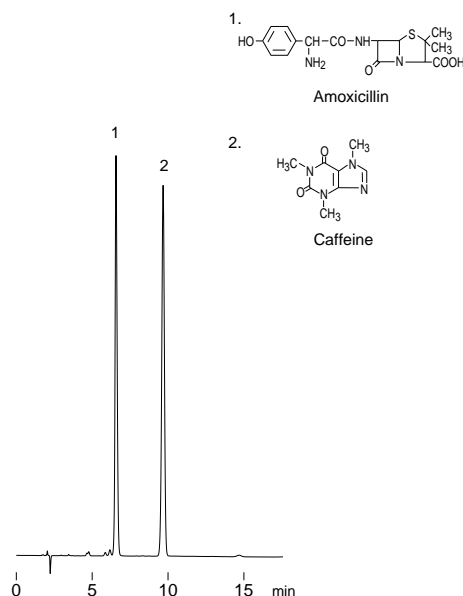


(O950920C)

Column : J'sphere ODS-H80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : 50mM NaH₂PO₄ - H₃PO₄ (pH 2.3)/acetonitrile (80/20) containing 20mM sodium 1-heptanesulfonate
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.13 AUFS
Injection : 2 μL (0.3, 0.7 mg/mL)

アモキシシリン

Amoxicillin

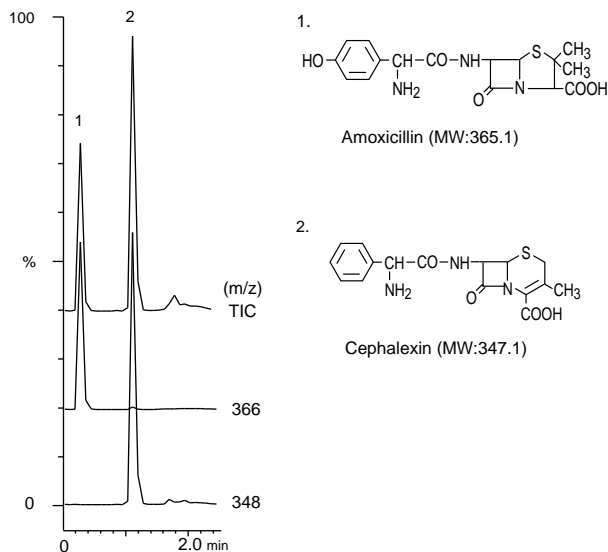


(S000622D)

Column : Hydrosphere C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile / water / TFA (10/90/0.1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 220 nm, 0.32 AUFS
Injection : 10 μL (0.2, 0.1 mg/mL)

抗生物質の高速分離 - LC/MS

Rapid separation of antibiotics - LC/MS



(A020620A)

Column : LC/MS Cartridge Column VA
Pro C18 (3 μm, 12nm)
20 × 2.0 mm I.D.

Eluent : A) water/formic acid (100/0.05)
B) methanol/formic acid (100/0.05)
10-90%B(0-0.5min), 90%B(0.5-1.0min)

Flow rate : 0.6 mL/min

Temperature : 37

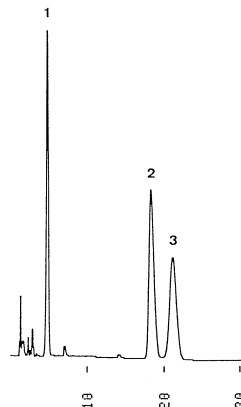
Detection : ESI-positive mode

Injection : 2 μL

エリスロマイシン

Erythromycin antibiotic drugs

1. Erythromycin
2. Erythromycin ethylsuccinate
3. Erythromycin estolate



(S930910B)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.

Eluent : acetonitrile/methanol/100mM (NH₄)₂HPO₄ (45/15/40)

Flow rate : 1.0 mL/min

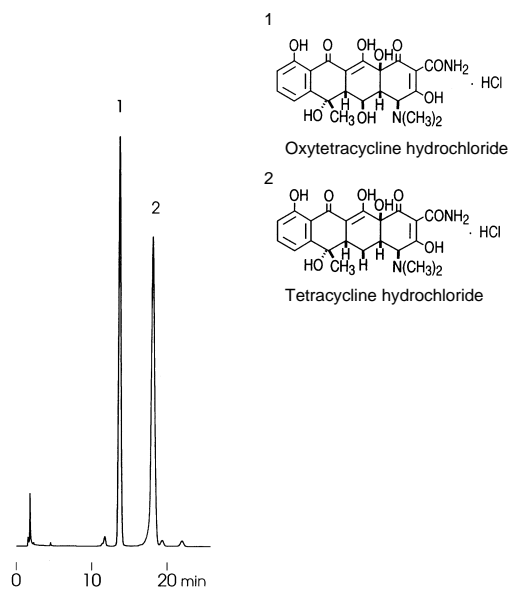
Temperature : 45

Detection : UV at 210 nm, 0.26 AUFS

Injection : 15 μL (2.5 mg/mL)

テトラサイクリン系抗生物質

Tetracycline antibiotics



(S970524D)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.

Eluent : acetonitrile/10mM oxalic acid (10/90)

Flow rate : 1.0 mL/min

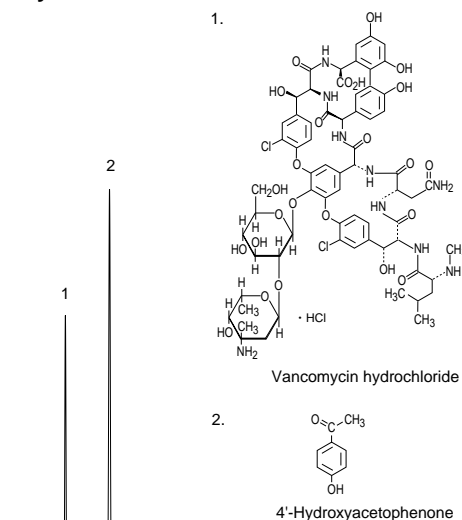
Temperature : 37

Detection : UV at 280 nm, 0.13 AUFS

Injection : 6 μL (0.2 mg/mL)

バンコマイシン

Vancomycin



(S000728B)

Column : Hydrosphere C18 (5 μm, 12nm)
150 × 4.6 mm I.D.

Eluent : 20mM KH₂PO₄ - K₂HPO₄ (pH 6.9) / acetonitrile
(88/12)

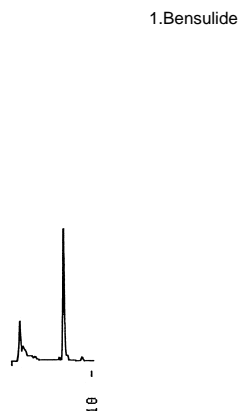
Flow rate : 1.0 mL/min

Temperature : 37

Detection : UV at 220 nm, 0.32 AUFS

Injection : 10 μL (0.1 mg/mL)

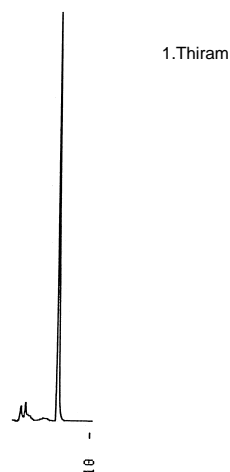
ベンスリド
O,O-Di-isopropyl S-2-benzenesulphonamidoethylphosphorodithioate



(G910223E)

Column : YMC-Pack MB-ODS
 150 × 2.1 mm I.D.
 Eluent : acetonitrile/water (60/40)
 Flow rate : 0.3 mL/min
 Temperature : 30
 Detection : UV at 220 nm, 0.01 AUFS
 Injection : 10 μL (1.0 mg/L)

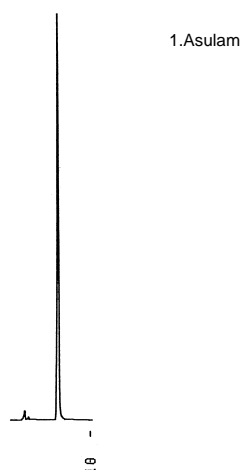
チウラム
Bis(dimethylthiocarbamoyl)disulfide



(G910223D)

Column : YMC-Pack MB-ODS
 150 × 2.1 mm I.D.
 Eluent : acetonitrile/water (40/60)
 Flow rate : 0.3 mL/min
 Temperature : 30
 Detection : UV at 260 nm, 0.01 AUFS
 Injection : 10 μL (2.0 mg/L)

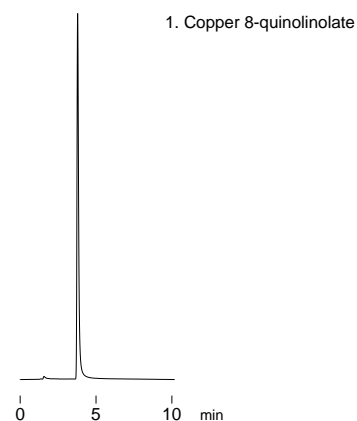
アシュラム
Methyl sulfanilylcarbamate



(G910223C)

Column : YMC-Pack MB-ODS
 150 × 2.1 mm I.D.
 Eluent : THF/water/TFA (10/90/0.05)
 Flow rate : 0.3 mL/min
 Temperature : 30
 Detection : UV at 260 nm, 0.01 AUFS
 Injection : 10 μL (1.0 mg/L)

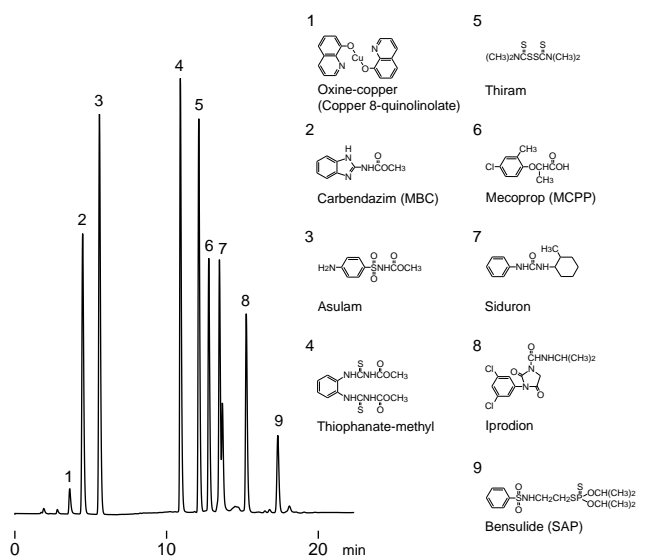
オキシシン銅
Copper 8-quinolinolate



(A010717A)

Column : Hydrosphere C18 (5 μm, 12nm)
 150 × 2.0 mm I.D.
 Eluent : acetonitrile/20mM H₃PO₄ (5/95)
 Flow rate : 0.2 mL/min
 Temperature : 37
 Detection : UV at 250 nm, 0.32 AUFS
 Injection : 2 μL (0.02 mg/mL)

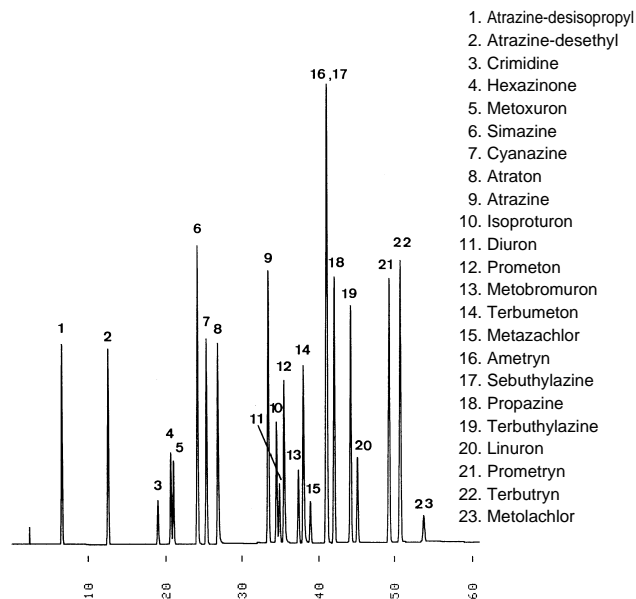
水質規制農薬9成分 Analysis of 9 pesticides



(N040107A)

Column : Hydrosphere C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : A) 50mM KH₂PO₄-H₃PO₄ (pH 3.0)
B) acetonitrile
15-65%B (0-10min), 65%B (10-20min)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 270 nm (0-6.5 min), 230 nm (6.5-20 min)
0.08 AUFS
Injection : 10 μL (10 μg/mL)

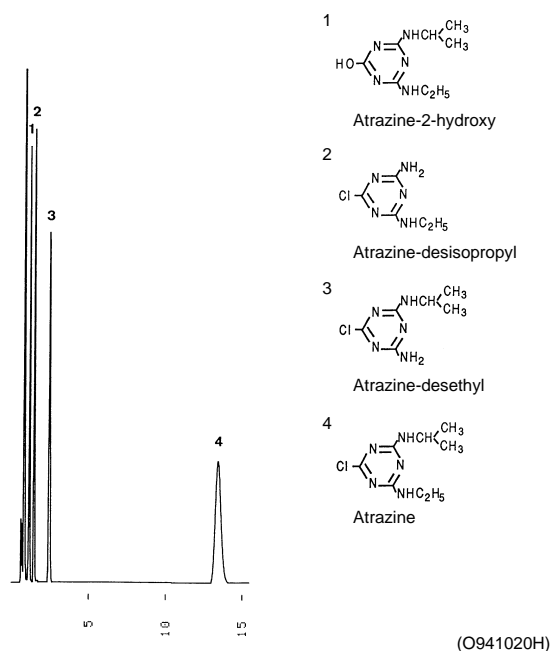
除草剤 Herbicides



(O941018B)

Column : J'sphere ODS-H80 (4 μm, 8nm)
250 × 4.6 mm I.D.
Eluent : A) acetonitrile/50mM NH₄H₂PO₄ (20/80)
B) acetonitrile/50mM NH₄H₂PO₄ (65/35)
0-100%B (0-60min, linear)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.16 AUFS
Injection : 5 μL (0.04 mg/mL)

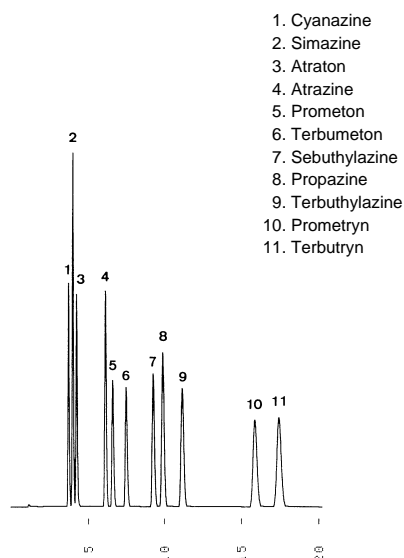
アトラジン誘導体 Atrazine derivatives



(O941020H)

Column : J'sphere ODS-H80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/water/TFA (25/75/0.1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.16 AUFS
Injection : 5 μL (0.04 mg/mL)

トリアジン系除草剤 Triazine herbicides

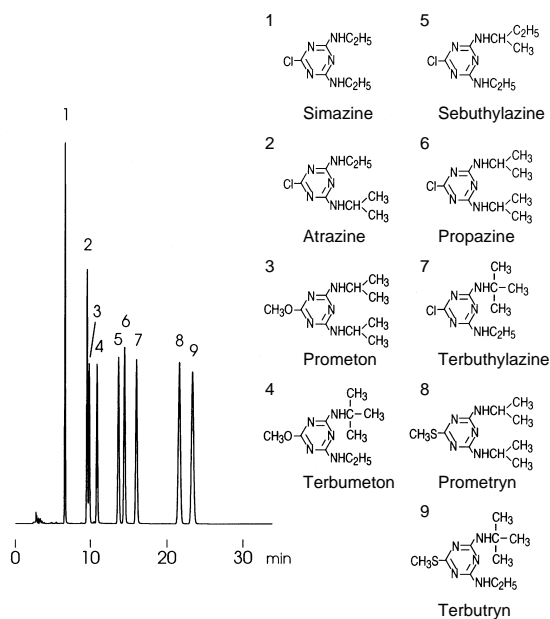


(O941102F)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/50mM NH₄H₂PO₄ (45/55)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.32 AUFS
Injection : 5 μL (0.05 mg/mL)

トリアジン系除草剤

Triazine herbicides

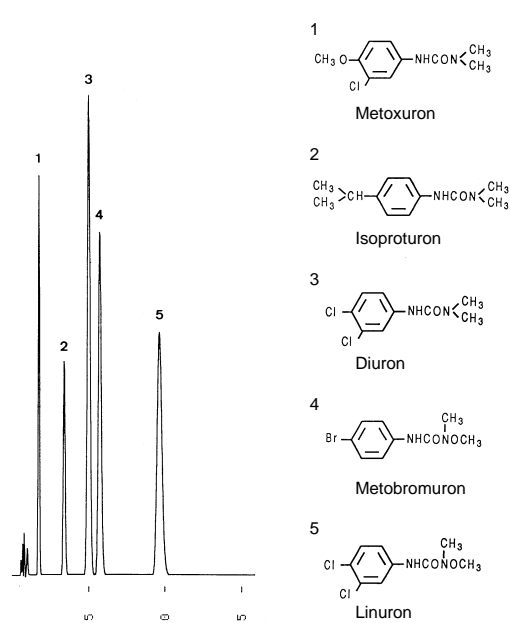


(A970210B)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
250 \times 4.6 mm I.D.
Eluent : acetonitrile/50mM $\text{NH}_4\text{H}_2\text{PO}_4$ (45/55)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.32 AUFS
Injection : 5 μ L (0.05 mg/mL)

尿素系除草剤

Urea herbicides

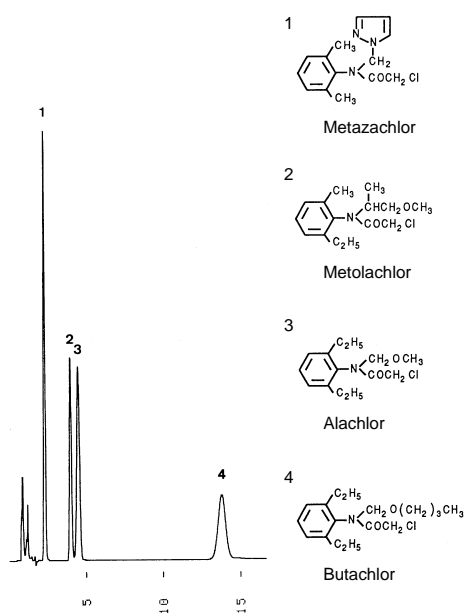


(O941028B)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
75 \times 4.6 mm I.D.
Eluent : THF/water (30/70)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.16 AUFS
Injection : 4 μ L (0.2 mg/mL)

酸アミド系除草剤

Acid amide herbicides

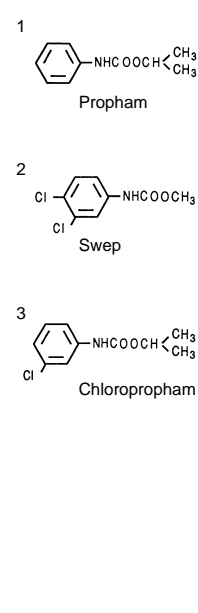


(O941108C)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
75 \times 4.6 mm I.D.
Eluent : 2-propanol/THF/water (25/15/60)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 210 nm, 0.16 AUFS
Injection : 8 μ L (0.05 mg/mL)

カルバメート系除草剤

Carbamate herbicides

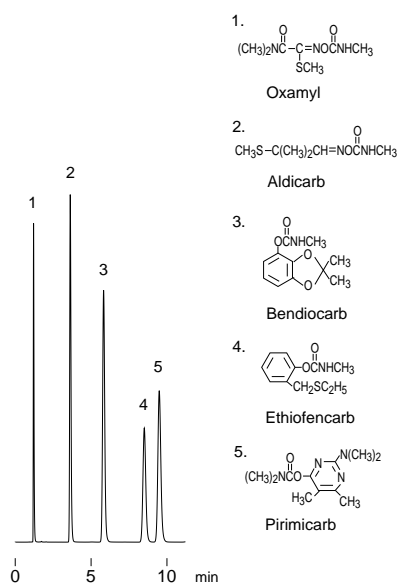


(O941124G)

Column : J'sphere ODS-L80 (4 μ m, 8nm)
75 \times 4.6 mm I.D.
Eluent : acetonitrile/water (45/55)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 240 nm, 0.16 AUFS
Injection : 5 μ L (0.08 mg/mL)

カルバメート系殺虫剤

Carbamate insecticides

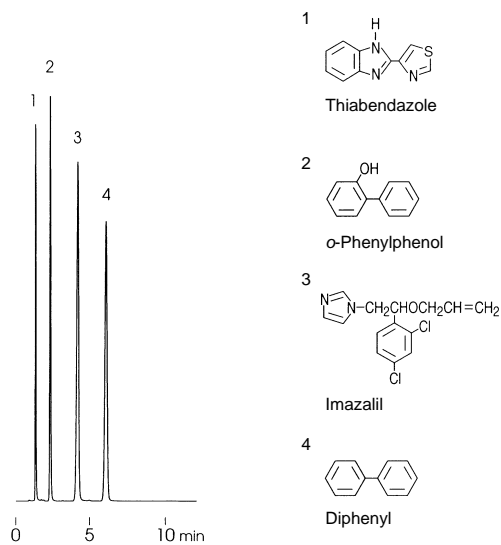


(J010220D)

Column : Hydrosphere C18 (3 μ m, 12nm)
75 × 4.6 mm I.D.
Eluent : methanol / 20mM KH₂PO₄ (45/55)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 240 nm, 0.64 AUFS
Injection : 5 μ L (0.1 ~ 1.5 mg/mL)

防かび剤

Fungicides

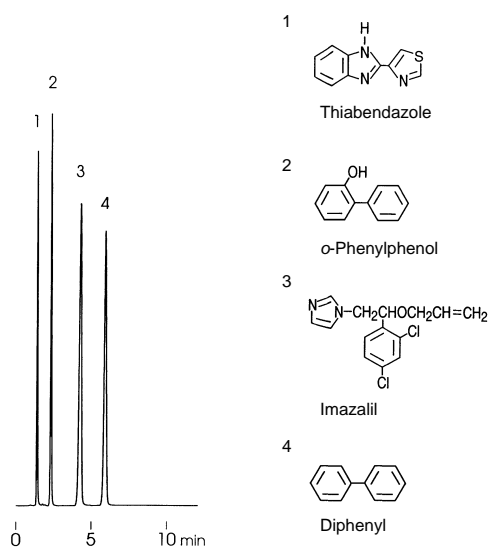


(A970217A)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
75 × 4.6 mm I.D.
Eluent : methanol/20mM NH₄H₂PO₄ (70/30)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.32 AUFS
Injection : 10 μ L (0.02 ~ 0.20 mg/mL)

防かび剤

Fungicides

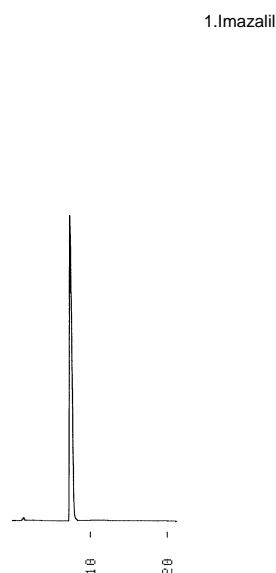


(A970219A)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
75 × 4.6 mm I.D.
Eluent : methanol/20mM NH₄H₂PO₄ (70/30)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.32 AUFS
Injection : 10 μ L (0.02 ~ 0.20 mg/mL)

イマザリル

Imazalil

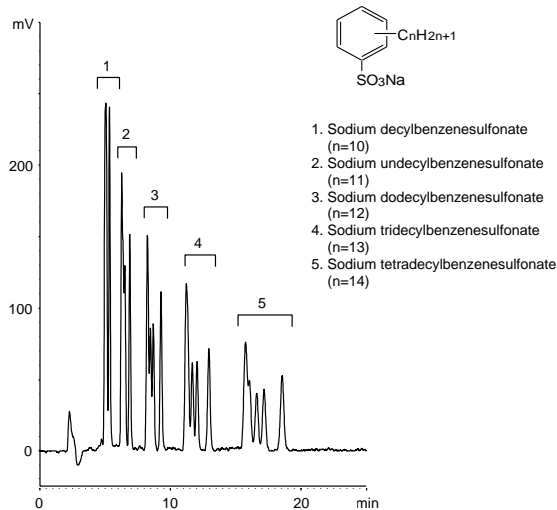


(B931007A)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/20mM NH₄H₂PO₄ (50/50)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.04 AUFS
Injection : 10 μ L (0.05 mg/mL)

陰イオン界面活性剤

Anionic surfactants



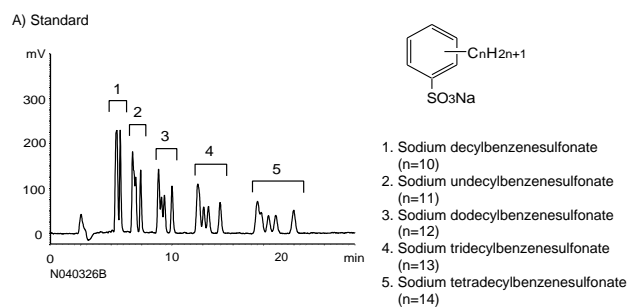
(N040324D)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
 250 \times 4.6 mm I.D.
 Eluent : acetonitrile/water (65/35) containing 0.1M NaClO₄
 Flow rate : 1.0 mL/min
 Temperature : 40
 Detection : FLS at Ex 221 nm, Em 284 nm
 Injection : 20 μ L (2.0 μ g/mL)

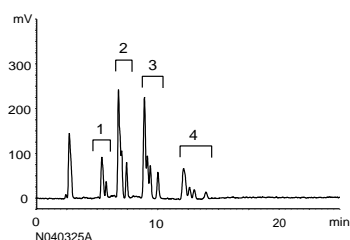
平成15年改正水質基準の検査方法準拠

市販洗濯剤中の陰イオン界面活性剤

Anionic surfactants in a commercial laundry detergent



B) Laundry detergent

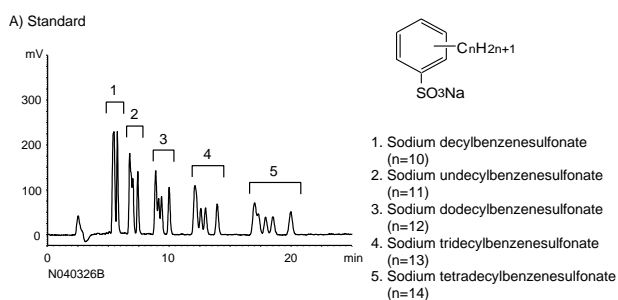


(N040325A)

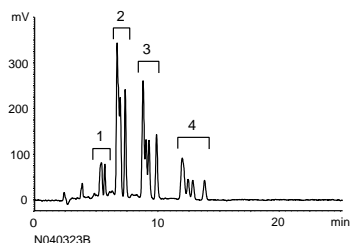
Column : YMC-Pack Pro C18 (5 μ m, 12nm)
 250 \times 4.6 mm I.D.
 Eluent : acetonitrile/water (65/35) containing 0.1M NaClO₄
 Flow rate : 1.0 mL/min
 Temperature : 40
 Detection : FLS at Ex 221 nm, Em 284 nm
 Injection : 20 μ L
 Sample : A) 2.0 μ g/mL
 B) 25 μ g/mL (water solution of laundry detergent powder)

市販クレンザー中の陰イオン界面活性剤

Anionic surfactants in a commercial cleanser



B) Cleanser

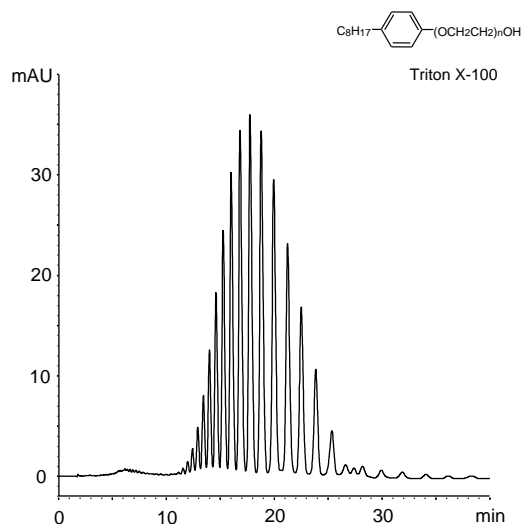


(N040323B)

Column : YMC-Pack Pro C18 (5 μ m, 12nm)
 250 \times 4.6 mm I.D.
 Eluent : acetonitrile/water (65/35) containing 0.1M NaClO₄
 Flow rate : 1.0 mL/min
 Temperature : 40
 Detection : FLS at Ex 221 nm, Em 284 nm
 Injection : 20 μ L
 Sample : A) 2.0 μ g/mL
 B) 250 μ g/mL (water solution of powder cleanser)

非イオン性界面活性剤

Nonionic surfactants



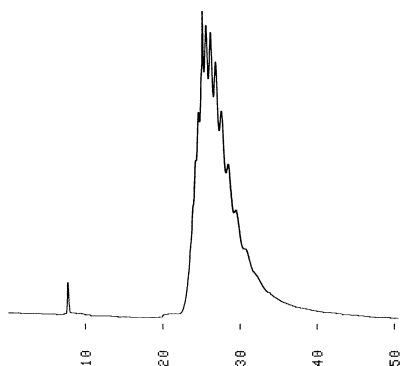
(N040308D)

Column : YMC-Pack Pro C18 RS (5 μ m, 8nm)
 250 \times 4.6 mm I.D.
 Eluent : THF/acetonitrile/water (10/45/45)
 Flow rate : 1.0 mL/min
 Temperature : 25
 Detection : UV at 254nm
 Injection : 10 μ L (20 mg/mL)

非イオン性界面活性剤

Nonionic surfactant

1.Triton X-100



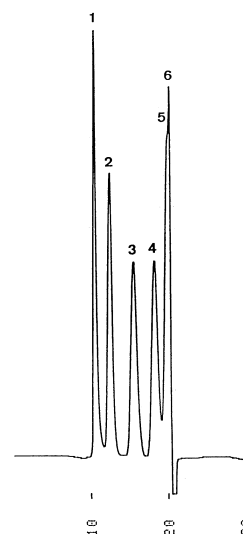
(G920109C)

Column : YMC-Pack Diol-120
500 × 8.0 mm I.D.
Eluent : acetonitrile/water (10/90)
Flow rate : 1.0 mL/min
Temperature : ambient (23)
Detection : UV at 260 nm, 0.02 AUFS
Injection : 15 μ L (5.0 mg/mL)
Sample : Triton X-100

ポリエチレングリコール

Polyethyleneglycols

1.PEG #20,000 (MW 20,000)
2.PEG #6,000 (MW 8,400)
3.PEG #4,000 (MW 3,350)
4.PEG #1,000 (MW 1,000)
5.PEG #300 (MW 300)
6.Ethyleneglycol (MW 62)

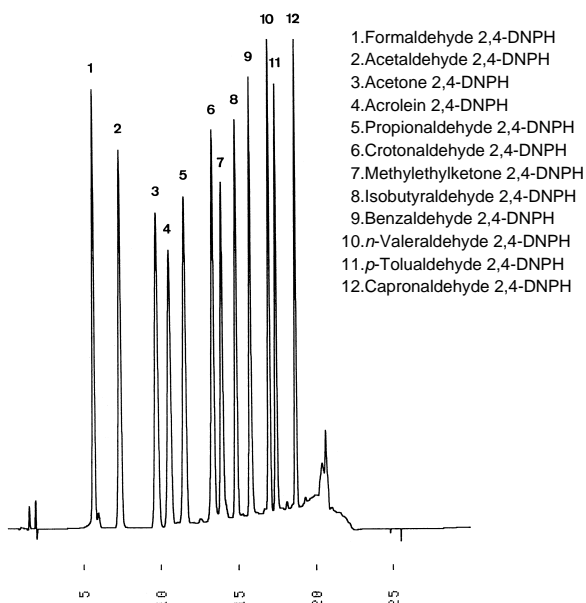


(G920123A)

Column : YMC-Pack Diol-120
500 × 8.0 mm I.D.
Eluent : acetonitrile/water(10/90)
Flow rate : 1.0 mL/min
Temperature : ambient (22)
Detection : RI, 64 × 10⁻⁶ RIU/FS
Injection : 100 μ L (1.67 mg/mL)

アルデヒドおよびケトン類の2,4-DNPH誘導体

2,4-Dinitrophenylhydrazones of aldehydes and ketones

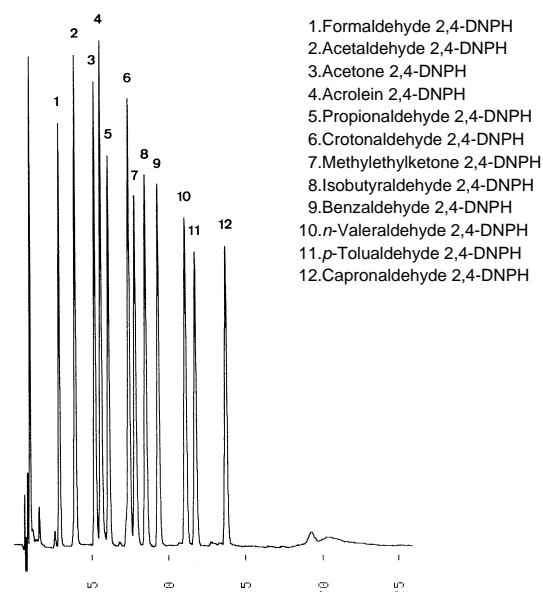


(T920302A)

Column : YMC-Pack C₄ (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : A)tetrahydrofuran/water (10/90)
B)acetonitrile
35%B (0-7min), 35-65%B (7-18min, linear), 100%B (18-19min),
35%B (19-35min)
Flow rate : 1.5 mL/min
Temperature : 30
Detection : UV at 360 nm, 0.01 AUFS
Injection : 11 μ L (0.0025 mg/mL)

アルデヒドおよびケトン類の2,4-DNPH誘導体

2,4-dinitrophenylhydrazones of aldehydes and ketones

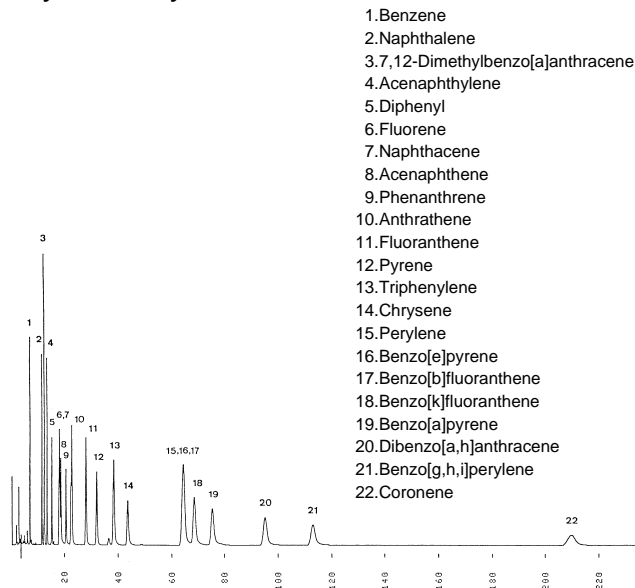


(T931130D)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
75 × 4.6 mm I.D.
Eluent : A)tetrahydrofuran/water (20/80)
B)acetonitrile/methanol (90/10)
30-67%B (0-15min, Linear), 30%B (15-25min)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 360 nm, 0.01 AUFS
Injection : 15 μ L (0.001 mg/mL)

多環芳香族炭化水素

Polyaromatic hydrocarbons

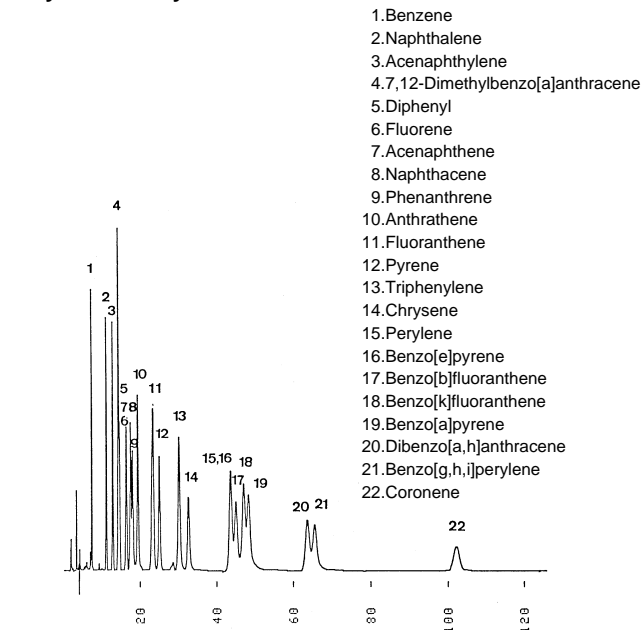


(K930918A)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
250 x 4.6 mm I.D.
Eluent : acetonitrile/water (65/35)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.08 AUFS
Injection : 7 μ L

多環芳香族炭化水素

Polyaromatic hydrocarbons

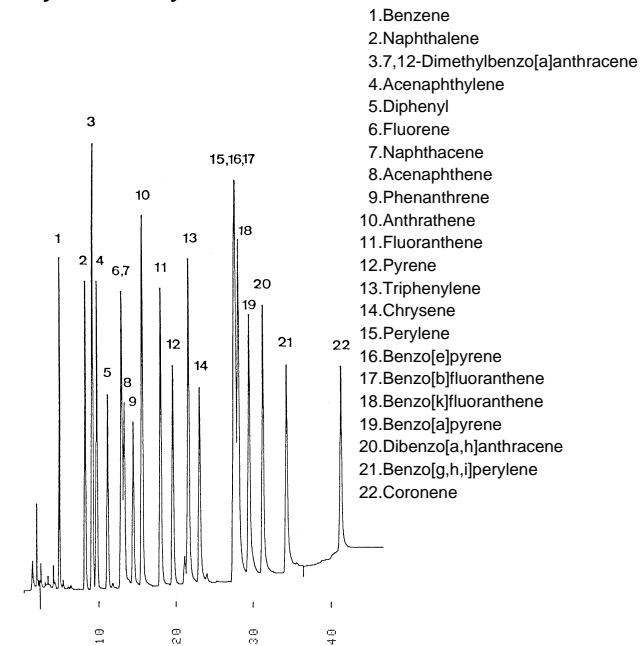


(K930918B)

Column : J'sphere ODS-M80 (4 μ m, 8nm)
250 x 4.6 mm I.D.
Eluent : acetonitrile/water (65/35)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.08 AUFS
Injection : 7 μ L

多環芳香族炭化水素

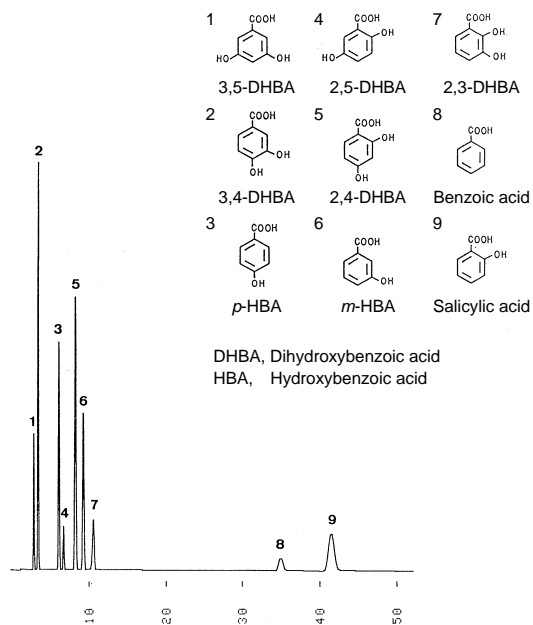
Polyaromatic hydrocarbons



(K930918C)

Column : J'sphere ODS-H80 (4 μ m, 8nm)
150 x 4.6 mm I.D.
Eluent : A) acetonitrile/water (50/50)
B) acetonitrile
30%B (0-5min), 30-100%B (5-40min), 100%B (40-50min)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.08 AUFS
Injection : 7 μ L

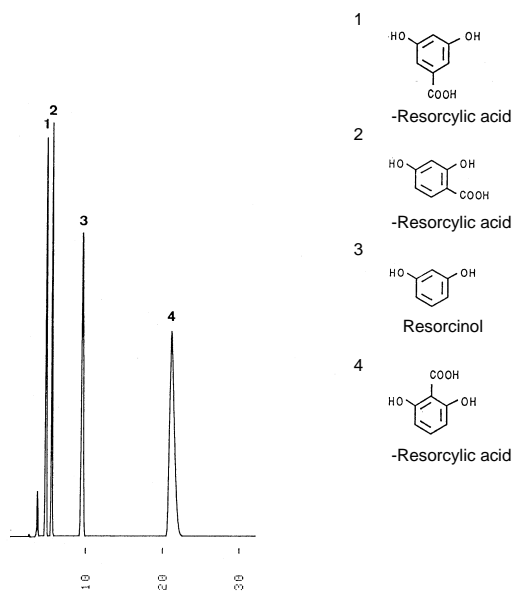
ヒドロキシ安息香酸
Hydroxybenzoic acids



(O940530D)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (5/90/5)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 285 nm, 0.16 AUFS
Injection : 5 μL (0.1 mg/mL)

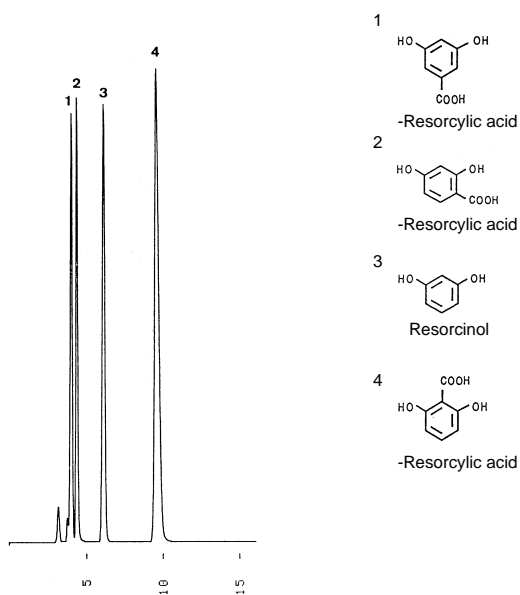
レゾルシン酸異性体
Resorcylic acid isomers



(O940607C)

Column : YMC-Pack C₈ (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/100mM KH₂PO₄ (10/90)
Flow rate : 0.8 mL/min
Temperature : 37
Detection : UV at 285 nm, 0.16 AUFS
Injection : 10 μL (0.05 ~ 0.4 mg/mL)

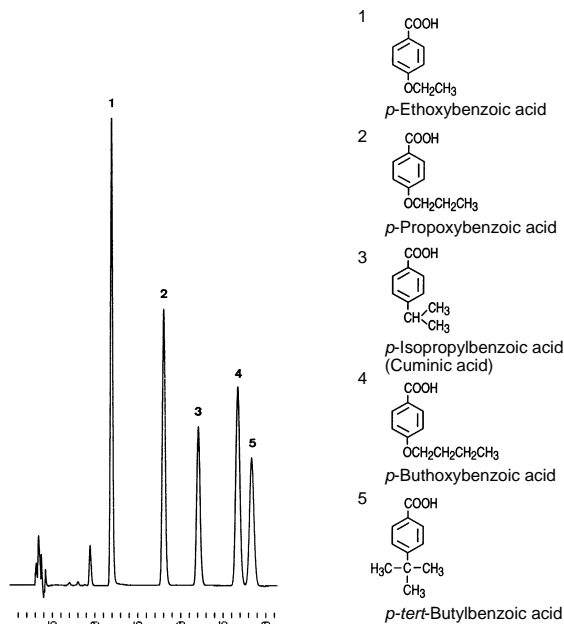
レゾルシン酸異性体
Resorcylic acid isomers



(O940606J)

Column : YMC-Pack Ph (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/100mM KH₂PO₄ (10/90)
Flow rate : 0.8 mL/min
Temperature : 37
Detection : UV at 285 nm, 0.16 AUFS
Injection : 10 μL (0.05 ~ 0.4 mg/mL)

安息香酸誘導体
Benzoic acid derivatives

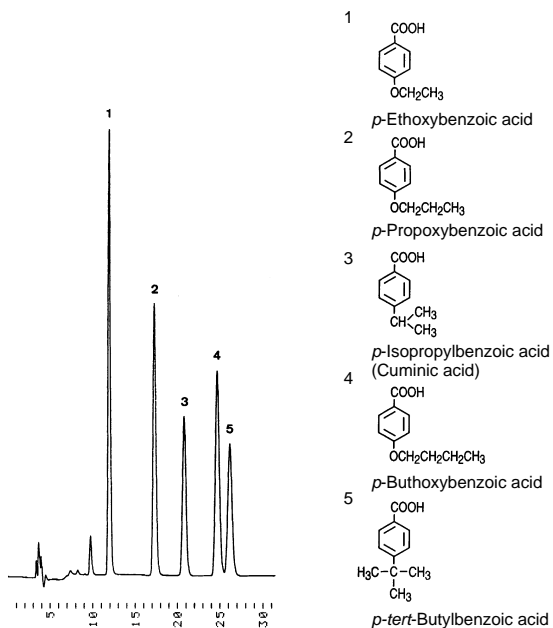


(O950511B)

Column : J'sphere ODS-M80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : tetrahydrofuran/water/acetic acid (40/60/1)
Flow rate : 0.5 mL/min
Temperature : ambient (26)
Detection : UV at 260 nm, 0.32 AUFS
Injection : 10 μL (0.04 ~ 0.2 mg/mL)

安息香酸誘導体

Benzoic acid derivatives

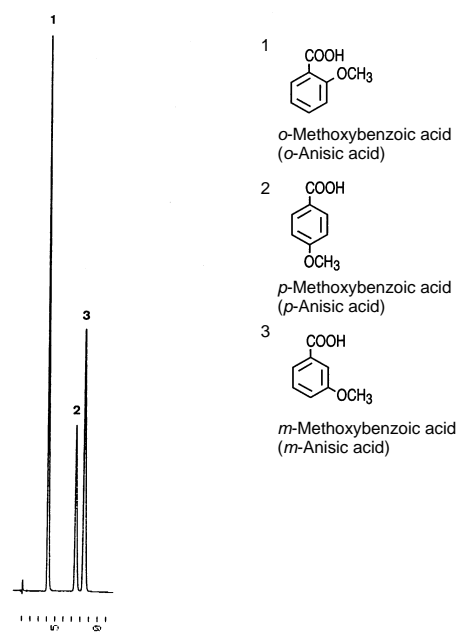


(O950511C)

Column : J'sphere ODS-L80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : tetrahydrofuran/water/acetic acid (40/60/1)
Flow rate : 0.5 mL/min
Temperature : ambient (26)
Detection : UV at 260 nm, 0.32 AUFS
Injection : 10 μL (0.04 ~ 0.2 mg/mL)

メトキシ安息香酸異性体

Methoxybenzoic acid isomers

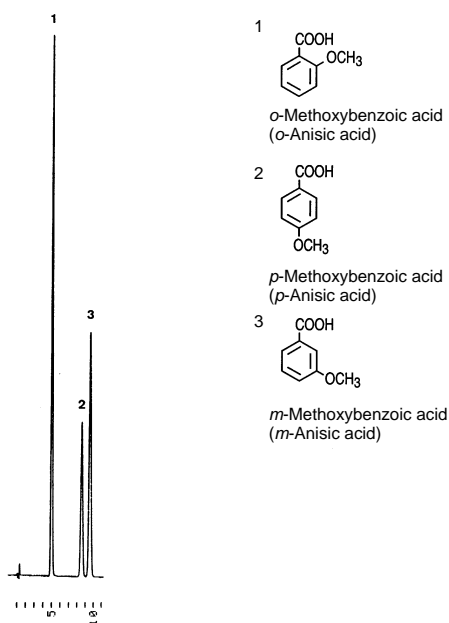


(O950508A)

Column : J'sphere ODS-H80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (20/80/1)
Flow rate : 1.0 mL/min
Temperature : ambient (25)
Detection : UV at 285 nm, 0.16 AUFS
Injection : 10 μL (0.17 mg/mL)

メトキシ安息香酸異性体

Methoxybenzoic acid isomers

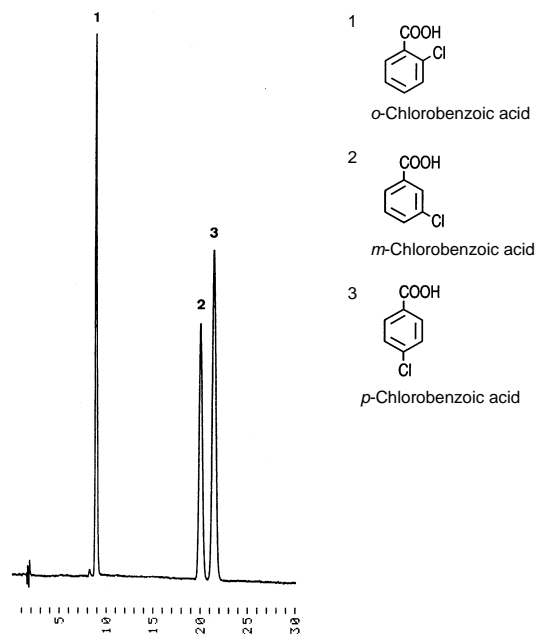


(O950508B)

Column : J'sphere ODS-M80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (20/80/1)
Flow rate : 1.0 mL/min
Temperature : ambient (25)
Detection : UV at 285 nm, 0.16 AUFS
Injection : 10 μL (0.17 mg/mL)

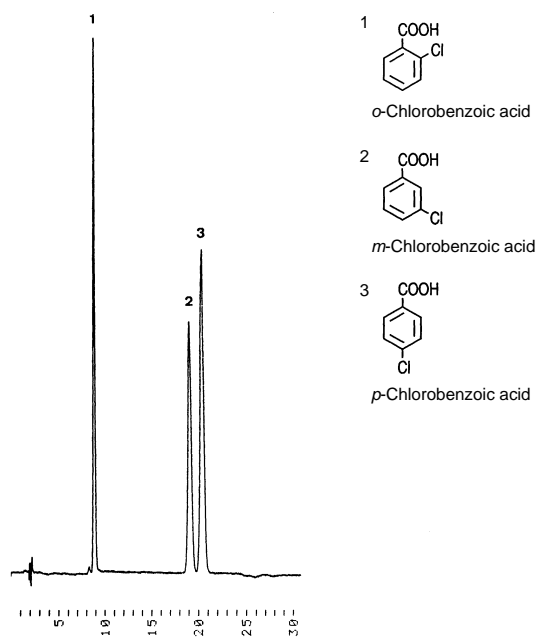
クロロ安息香酸異性体

Chlorobenzoic acid isomers



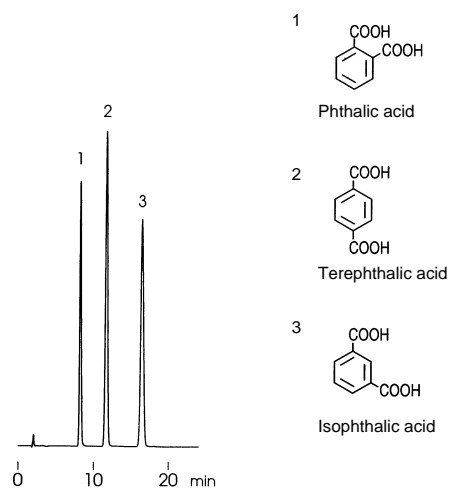
(O950509B)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (25/75/1)
Flow rate : 1.0 mL/min
Temperature : ambient (27)
Detection : UV at 270 nm, 0.04 AUFS
Injection : 10 μL (0.17 mg/mL)

クロロ安息香酸異性体
Chlorobenzoic acid isomers

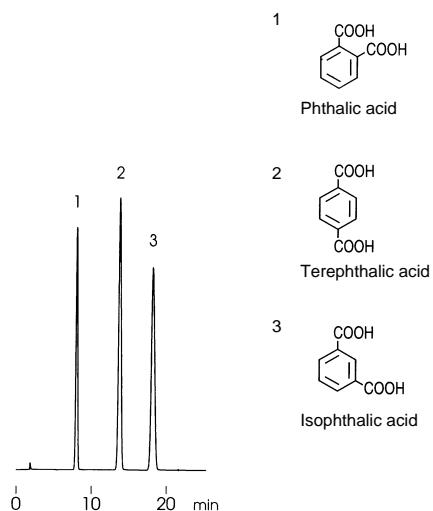
(O950509D)

Column : YMC-Pack ODS-AM (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (25/75/1)
Flow rate : 1.0 mL/min
Temperature : ambient (27 °C)
Detection : UV at 270 nm, 0.04 AUFS
Injection : 10 μL (0.17 mg/mL)

フタル酸異性体
Phthalic acid isomers

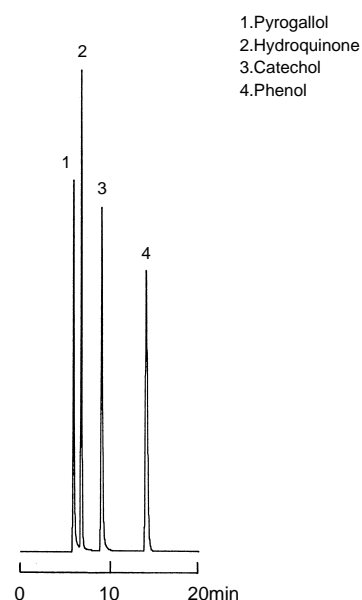
(A971112B)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 3.0 mm I.D.
Eluent : methanol/10mM H₃PO₄ (25/75)
Flow rate : 0.4 mL/min
Temperature : 37 °C
Detection : UV at 254 nm, 0.16 AUFS
Injection : 4 μL (0.05 ~ 0.5 mg/mL)

フタル酸異性体
Phthalic acid isomers

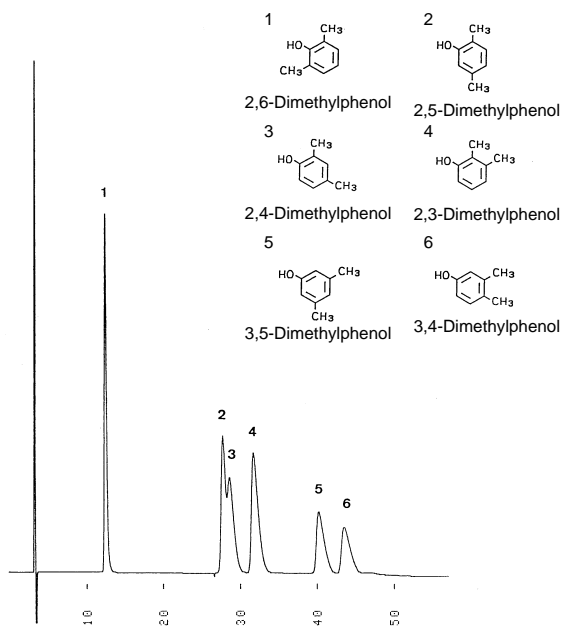
(A971112A)

Column : YMC-Pack ODS-AQ (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : methanol/10mM H₃PO₄ (25/75)
Flow rate : 1.0 mL/min
Temperature : 37 °C
Detection : UV at 254 nm, 0.16 AUFS
Injection : 10 μL (0.05 ~ 0.5 mg/mL)

ポリフェノール
Polyphenols

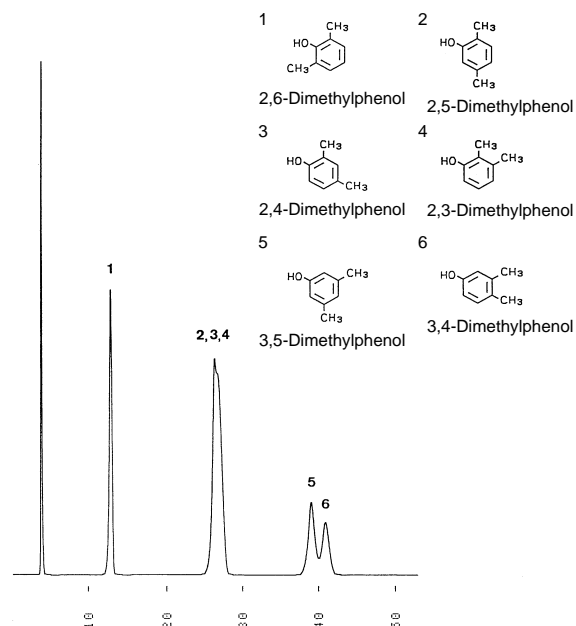
(H890627A)

Column : YMC-Pack Ph (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : 5mM acetic acid
Flow rate : 1.0 mL/min
Temperature : 25 °C
Detection : UV at 280 nm, 0.32 AUFS
Injection : 20 μL

ジメチルフェノール異性体
Dimethylphenol isomers

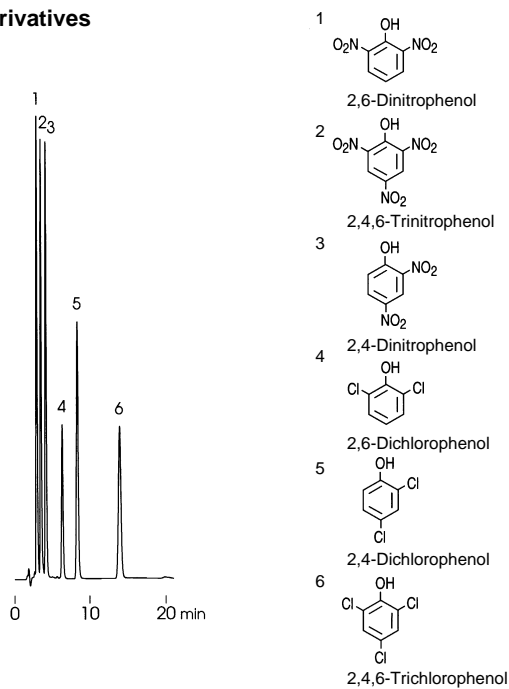
(T921019B)

Column : YMC-Pack Polyamine II
250 × 4.6 mm I.D.
Eluent : 20% ethyl acetate in hexane
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.08 AUFS
Injection : 20 μL (0.33 mg/mL)

ジメチルフェノール異性体
Dimethylphenol isomers

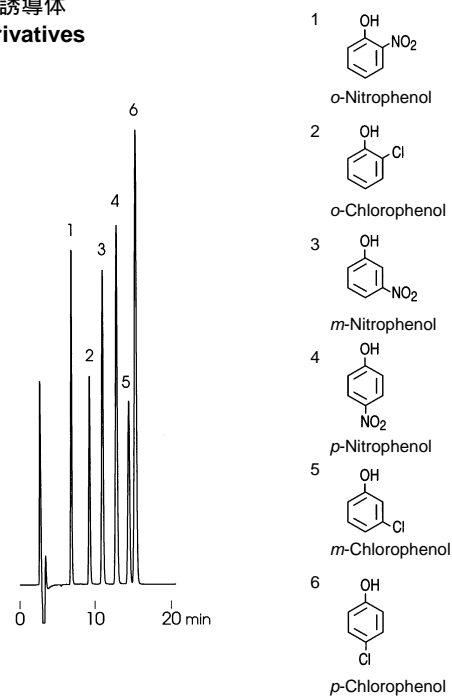
(T921020C)

Column : YMC-Pack NH₂ (5 μm, 12nm)
250 × 4.6 mm I.D.
Eluent : 10% ethyl acetate in hexane
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.08 AUFS
Injection : 20 μL (0.33 mg/mL)

フェノール誘導体
Phenol derivatives

(O950616I)

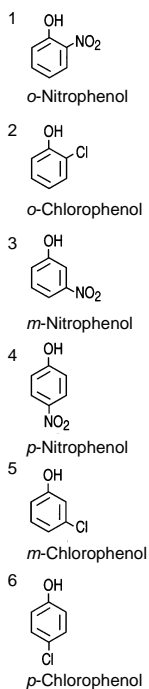
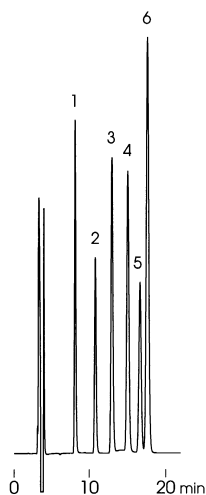
Column : J'sphere ODS-H80 (4 μm, 8nm)
75 × 4.6 mm I.D.
Eluent : 2-propanol/water/TFA (40/60/0.1)
Flow rate : 0.4 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.13 AUFS
Injection : 5 μL (0.04 mg/mL)

フェノール誘導体
Phenol derivatives

(O950614C)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : tetrahydrofuran/water/acetic acid (35/65/1)
Flow rate : 0.5 mL/min
Temperature : 37
Detection : UV at 240 nm, 0.13 AUFS
Injection : 4 μL (0.08 mg/mL)

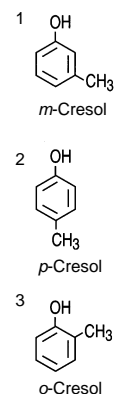
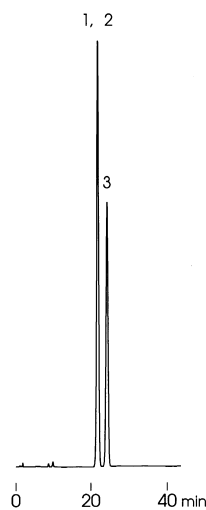
フェノール誘導体
Phenol derivatives



(O950614F)

Column : YMC-Pack ODS-AM (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : tetrahydrofuran/water/acetic acid (35/65/1)
Flow rate : 0.5 mL/min
Temperature : 37
Detection : UV at 240 nm, 0.13 AUFS
Injection : 4 μL (0.08 mg/mL)

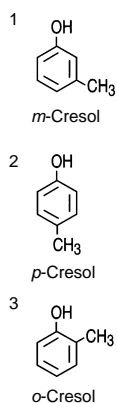
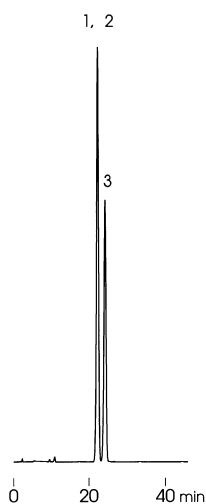
クレゾール異性体
Cresol isomers



(O951025B)

Column : J'sphere ODS-H80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (18/82)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.064 AUFS
Injection : 10 μL (0.3 mg/mL)

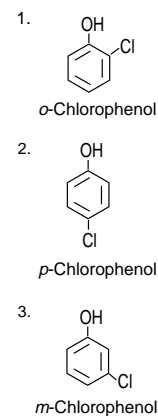
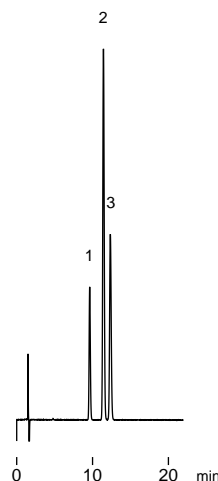
クレゾール異性体
Cresol isomers



(O951025C)

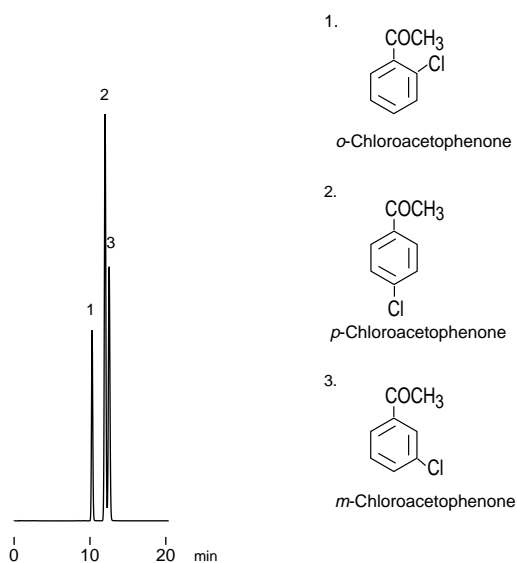
Column : J'sphere ODS-M80 (4 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water (18/82)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 260 nm, 0.064 AUFS
Injection : 10 μL (0.3 mg/mL)

クロロフェノール異性体
Chlorophenol isomers



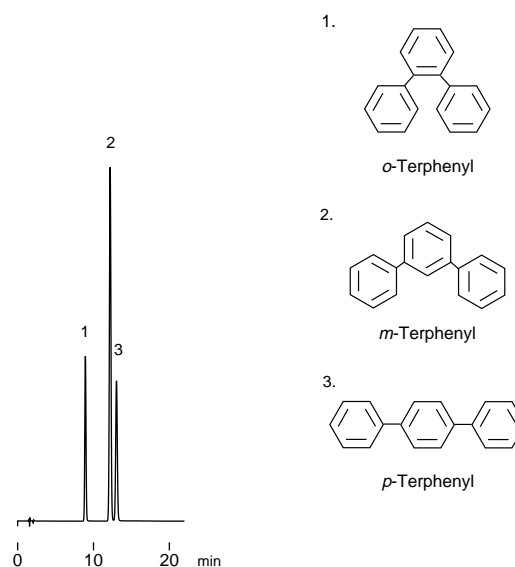
(J011113D)

Column : YMC-Pack Pro C18 RS (5 μm, 8nm)
150 × 4.6 mm I.D.
Eluent : acetonitrile/water/acetic acid (30/70/1)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 230 nm, 0.32 AUFS
Injection : 10 μL (0.1 ~ 0.2 mg/mL)

クロロアセトフェノン異性体
Chloroacetophenone isomers

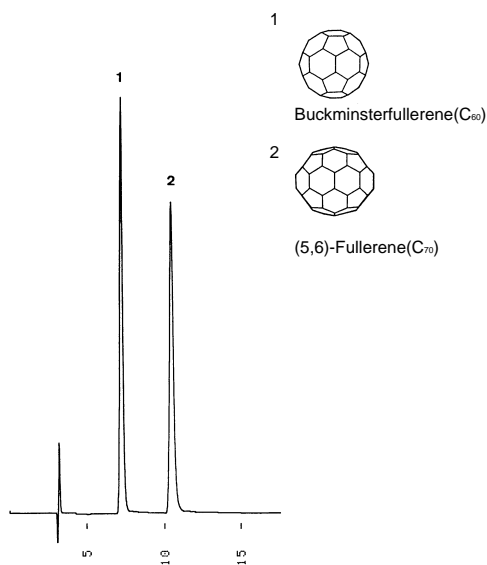
(J011026B)

Column : YMC-Pack Pro C18 RS (5 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : acetonitrile/water (40/60)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm, 0.32 AUFS
Injection : 8.0 μ L (0.05 ~ 0.1 μ L/mL)

ターフェニル異性体
Terphenyl isomers

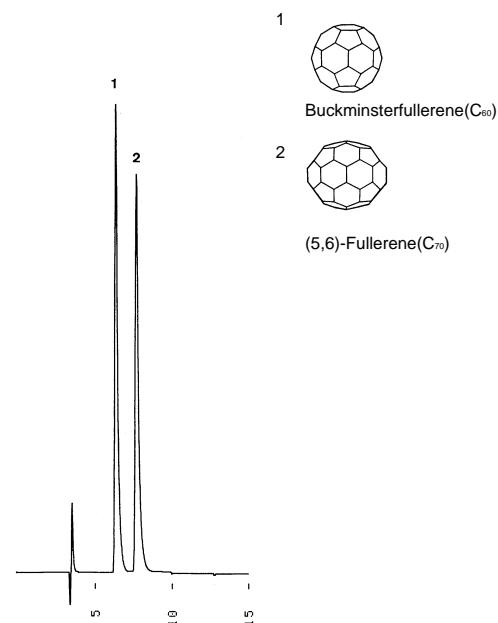
(J020719E)

Column : YMC-Pack Pro C18 RS (5 μ m, 8nm)
150 \times 4.6 mm I.D.
Eluent : methanol/water (85/15)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.16 AUFS
Injection : 10 μ L (0.02 mg/mL)

フラーレン同族体
Fullerenes

(S930119B)

Column : YMC-Pack ODS-A (5 μ m, 12nm)
150 \times 6.0 mm I.D.
Eluent : hexane/2-propanol (70/30)
Flow rate : 1.0 mL/min
Temperature : ambient (25)
Detection : UV at 350 nm, 0.08 AUFS
Injection : 4 μ L (0.125 mg/mL)

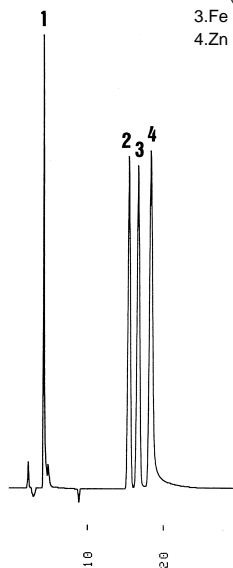
フラーレン同族体
Fullerenes

(S930128B)

Column : YMC-Pack Ph (5 μ m, 12nm)
150 \times 6.0 mm I.D.
Eluent : hexane/2-propanol (50/50)
Flow rate : 1.0 mL/min
Temperature : ambient (25)
Detection : UV at 350 nm, 0.08 AUFS
Injection : 4 μ L (0.125 mg/mL)

1-(2-ピリジルアゾ)-2-ナフトール(PAN)金属キレート
Metal-PAN chelates

- 1.Co ()-1-(2-Pyridylazo)-2-naphthol
- 2.Ni ()-1-(2-Pyridylazo)-2-naphthol
- 3.Fe ()-1-(2-Pyridylazo)-2-naphthol
- 4.Zn ()-1-(2-Pyridylazo)-2-naphthol

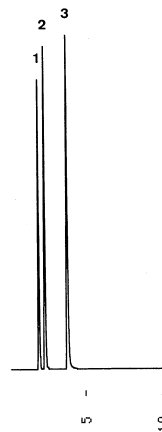


(T910520A)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 × 6.0 mm I.D.
Eluent : acetonitrile/water (70/30) containing 0.01% PAN
and 10mM tetrabutylammonium bromide
Flow rate : 1.0 mL/min
Temperature : 30
Detection : VIS at 565 nm, 0.08 AUFS
Injection : 12 μ L (25 ~ 92 μ g/mL)

配位性化合物
Coordination compounds

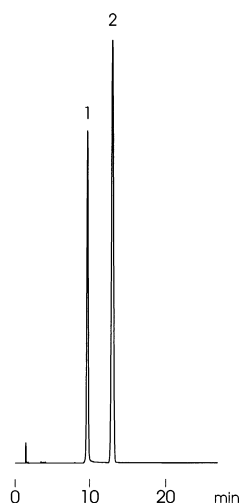
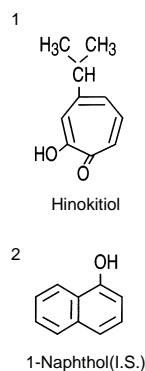
1. Uracil
2. Acetylacetone
3. 8-Quinololin



(M910604I)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM KH₂PO₄ - K₂HPO₄ (pH7.6)/methanol (40/60)
Flow rate : 1.0 mL/min
Temperature : 40
Detection : UV at 254 nm, 0.32 AUFS

ヒノキチオール
Hinokitiol

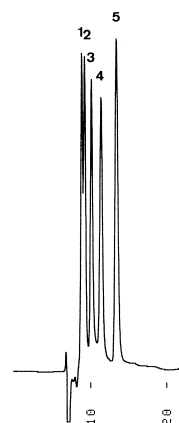


(O960507F)

Column : YMC-Pack ODS-AM (5 μ m, 12nm)
150 × 4.6 mm I.D.
Eluent : 20mM NH₄H₂PO₄ containing 1mM EDTA·2Na/acetonitrile (65/35)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 320 nm, 0.16 AUFS
Injection : 10 μ L (0.08, 0.25 mg/mL)

アミノアルコール
Aminoalcohols

- 1.Ethanolamine
- 2.Diethanolamine
- 3.N-Methylethanolamine
- 4.Triethanolamine
- 5.N,N-Dimethylethanolamine

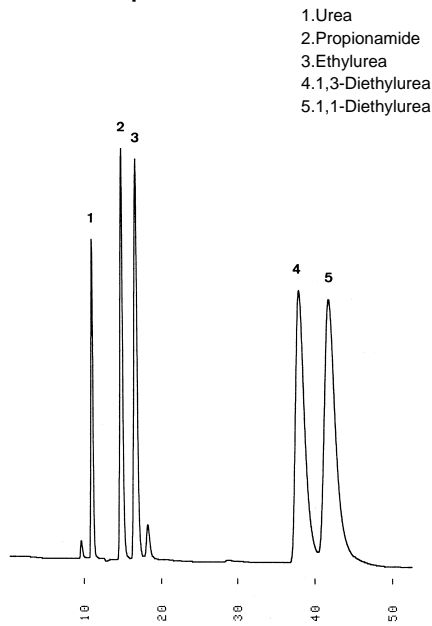


(M920124B)

Column : YMC-Pack PolymerC18
250 × 6.0 mm I.D.
Eluent : 100mM Na₂HPO₄/100mM NaOH (60/40, pH 12.0)
Flow rate : 0.6 mL/min
Temperature : 20
Detection : UV at 215 nm, 0.32 AUFS
Injection : 50 μ L (0.2 ~ 3.0 mg/mL)

尿素及び関連化合物

Urea and related compounds



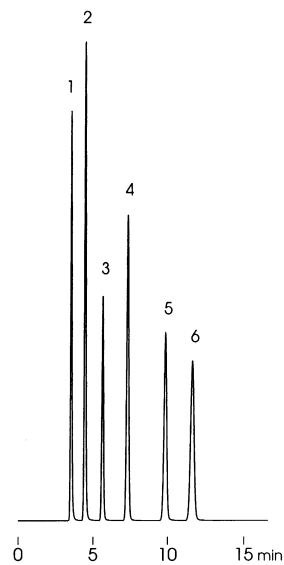
1. Urea
2. Propionamide
3. Ethylurea
4. 1,3-Diethylurea
5. 1,1-Diethylurea

(M920108A)

Column : YMC-Pack PolymerC18
250 × 6.0 mm I.D.
Eluent : 0.4% HClO₄ (pH 1.3)
Flow rate : 0.5 mL/min
Temperature : 25
Detection : UV at 210 nm, 0.32 AUFS
Injection : 15 μL (0.4 ~ 7.5 mg/mL)

芳香族アミン

Aromatic amines



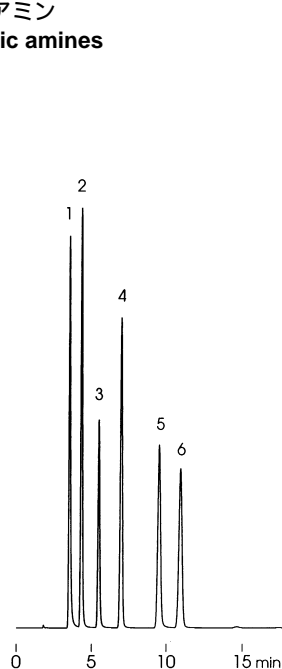
- 1 Nc1ccc(N)cc1
p-Phenylenediamine
- 2 Nc1ccc(O)cc1
p-Aminophenol
- 3 Nc1cccc(N)c1
m-Phenylenediamine
- 4 Nc1cccc(O)c1
m-Aminophenol
- 5 Nc1ccccc1N
o-Phenylenediamine
- 6 Nc1ccccc1O
o-Aminophenol

(S961007C)

Column : YMC-Pack Pro C18 (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 50mM NH₄H₂PO₄ - (NH₄)₂HPO₄ (pH 6.7)/methanol (95/5)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.26 AUFS
Injection : 5 μL (0.125 ~ 0.5 mg/mL)

芳香族アミン

Aromatic amines

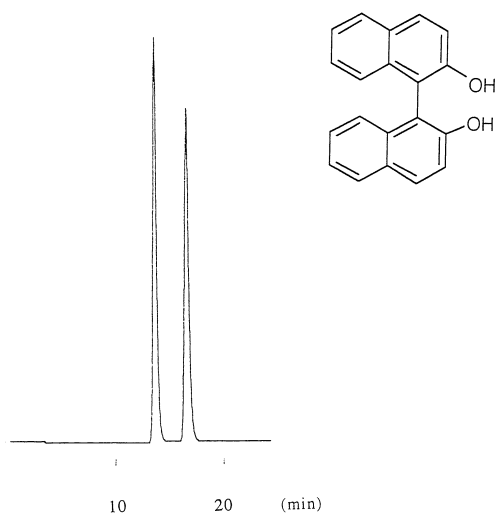


- 1 Nc1ccc(N)cc1
p-Phenylenediamine
- 2 Nc1ccc(O)cc1
p-Aminophenol
- 3 Nc1cccc(N)c1
m-Phenylenediamine
- 4 Nc1cccc(O)c1
m-Aminophenol
- 5 Nc1ccccc1N
o-Phenylenediamine
- 6 Nc1ccccc1O
o-Aminophenol

(S961004E)

Column : YMC-Pack ODS-AM (5 μm, 12nm)
150 × 4.6 mm I.D.
Eluent : 50mM NH₄H₂PO₄ - (NH₄)₂HPO₄ (pH 6.7)/methanol (95/5)
Flow rate : 1.0 mL/min
Temperature : 37
Detection : UV at 254 nm, 0.26 AUFS
Injection : 5 μL (0.125 ~ 0.5 mg/mL)

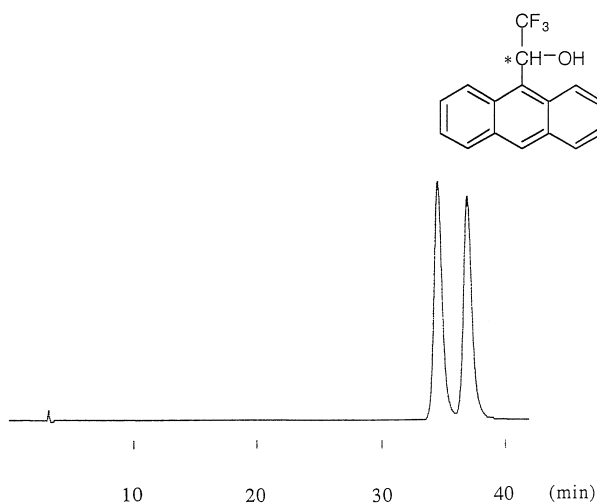
ピナフトール
1,1'-Bi-2-naphthol



(N020605A)

Column : YMC CHIRAL NEA (R)
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (50/50)
Flow rate : 1.0 mL/min
Temperature : ambient
Detection : UV at 235 nm
Injection : 1 μL (2.8 mg/mL)

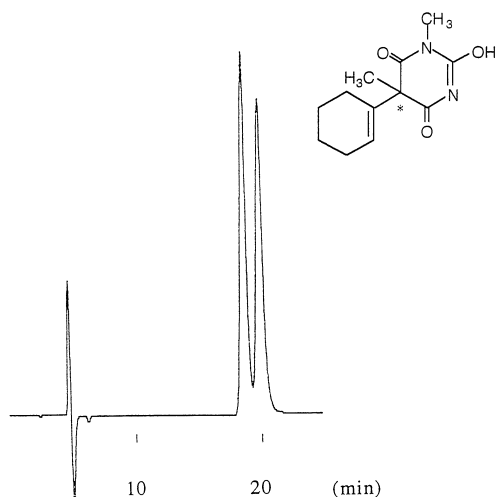
トリフルオロアンスリルエタノール
2,2,2-Trifluoro-1-(9-anthryl)-ethanol



(N020605B)

Column : YMC CHIRAL NEA (R)
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (40/60)
Flow rate : 1.0 mL/min
Temperature : ambient
Detection : UV at 254 nm
Injection : 1 μL (0.14 mg/mL)

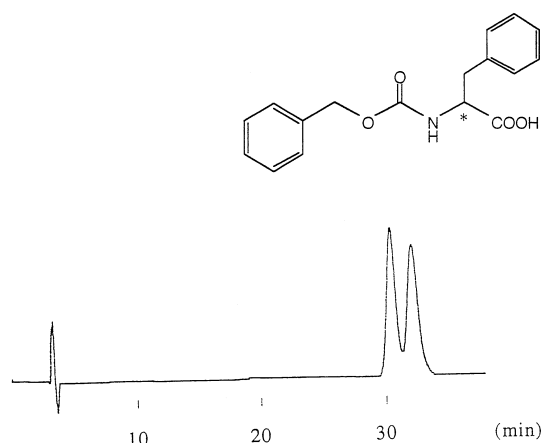
ヘキサバルビタール
Hexobarbital



(N020605C)

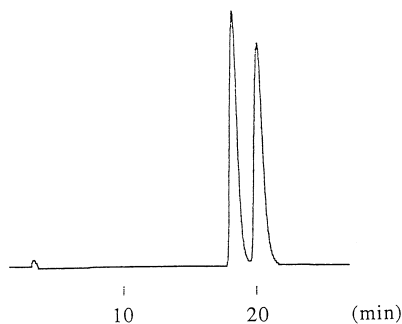
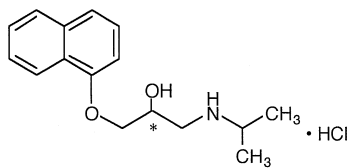
Column : YMC CHIRAL NEA (R)
250 × 4.6 mm I.D.
Eluent : acetonitrile/water (30/70)
Flow rate : 0.7 mL/min
Temperature : ambient
Detection : UV at 210 nm
Injection : 1 μL (1.2 mg/mL)

CBZ-フェニルアラニン
CBZ-Phenylalanine(Z-Phe-OH)



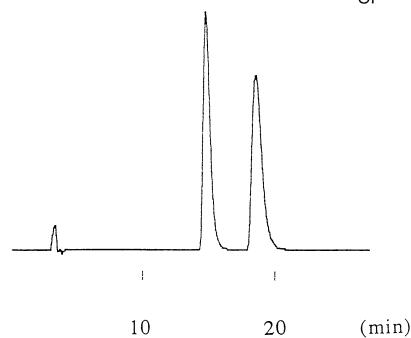
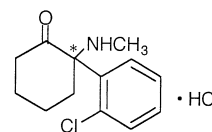
(N020605D)

Column : YMC CHIRAL NEA (R)
250 × 4.6 mm I.D.
Eluent : 0.5M NaClO₄ - HClO₄ (pH 2.0)/acetonitrile (70/30)
Flow rate : 1.0 mL/min
Temperature : ambient
Detection : UV at 254 nm
Injection : 10 μL (1.5 mg/mL)

塩酸プロプラノロール
Propranolol hydrochloride

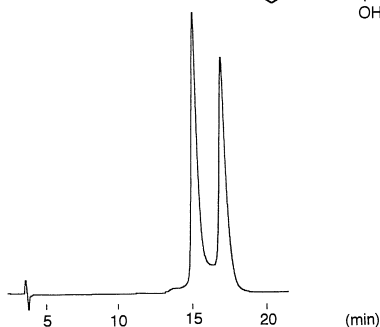
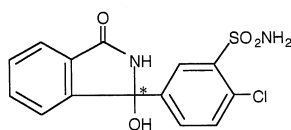
(N020605E)

Column : YMC CHIRAL NEA (R)
250 × 4.6 mm I.D.
Eluent : acetonitrile/0.5M NaClO₄ (40/60)
Flow rate : 1.0 mL/min
Temperature : ambient
Detection : UV at 254 nm
Injection : 5 μL (1.5 mg/mL)

塩酸ケタミン
Ketamine hydrochloride

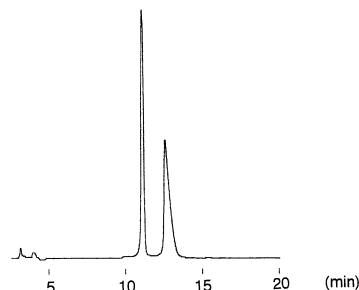
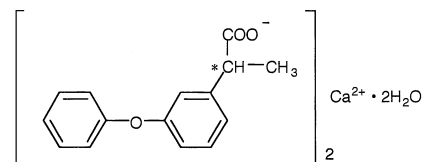
(N020605F)

Column : YMC CHIRAL NEA (R)
250 × 4.6 mm I.D.
Eluent : acetonitrile/0.5M NaClO₄ (40/60)
Flow rate : 1.0 mL/min
Temperature : ambient
Detection : UV at 268 nm
Injection : 10 μL (1.4 mg/mL)

クロルタリドン
Chlorthalidone

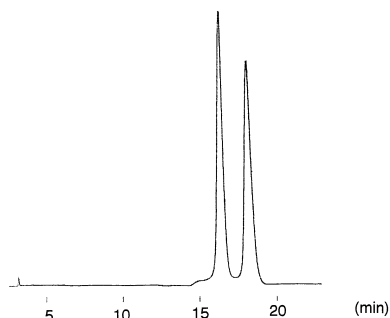
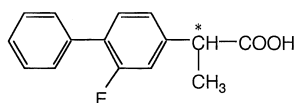
(N020605G)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : water/acetic acid (100/1)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : UV at 254 nm
Injection : 2 μL (1 mg/mL)

フェノプロフェンカルシウム
Fenoprofen calcium salt; hydrate

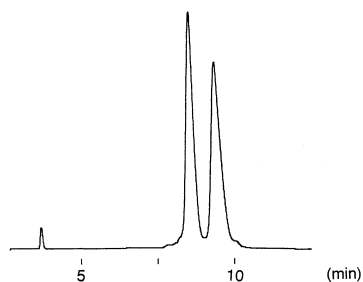
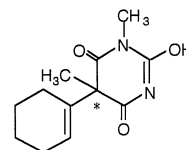
(N020605H)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.53M AcOH - 0.53M TEA (pH 4.0)/acetonitrile (10/90)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : UV at 254 nm
Injection : 5 μL (1 mg/mL)

フルルビプロフェン
Flurbiprofen

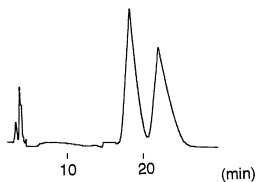
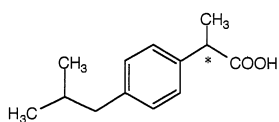
(N020605I)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.53M AcOH - 0.53M TEA (pH 4.0)/acetonitrile (10/90)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : UV at 254 nm
Injection : 2 μL (1 mg/mL)

ヘキソバルビタール
Hexobarbital

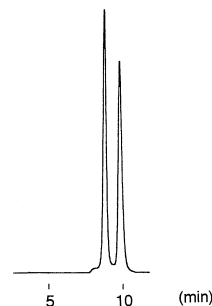
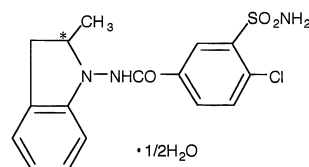
(N020605J)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.2M AcOH - 0.2M TEA (pH 5.6)/methanol (70/30)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm
Injection : 5 μL (1 mg/mL)

イブプロフェン
Ibuprofen

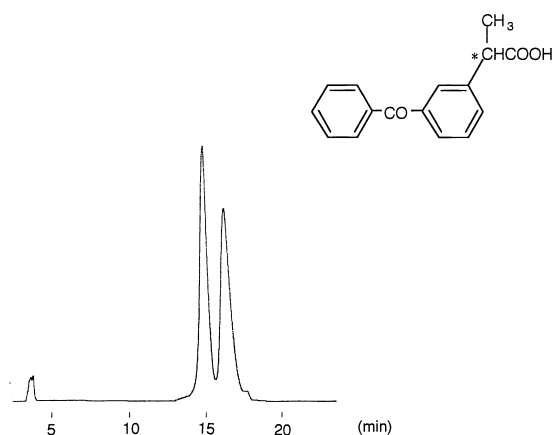
(N020605K)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.1M AcOHaq - TEAaq (pH 4.0)/acetonitrile (10/90)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : UV at 254 nm
Injection : 20 μL (2 mg/mL)

インダパミド
Indapamide

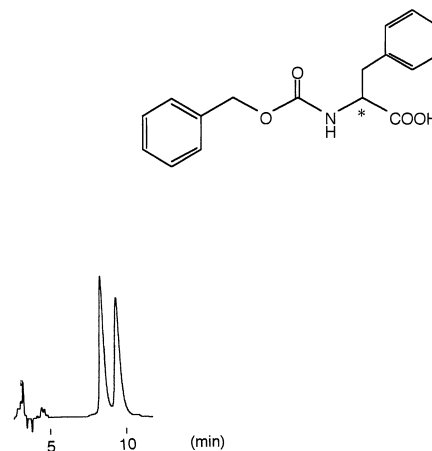
(N020605L)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.2M AcOH - 0.2M TEA (pH 5.6)/acetonitrile (90/10)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : UV at 254 nm
Injection : 2 μL (1 mg/mL)

ケトプロフェン
Ketoprofen

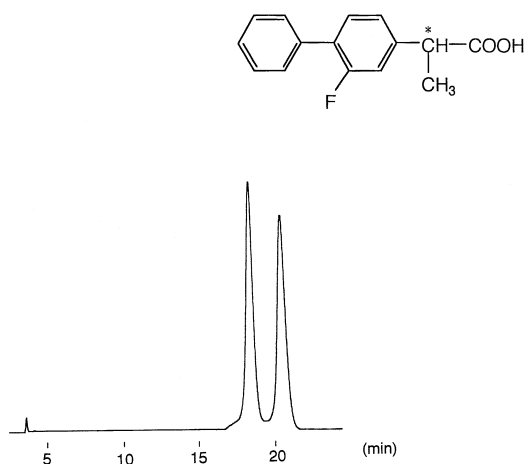
(N020605M)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.2M AcOH - 0.2M TEA (pH 5.6)/methanol (30/70)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : UV at 254 nm
Injection : 10 μ L (1 mg/mL)

CBZ-フェニルアラニン
CBZ-Phenylalanine (Z-Phe-OH)

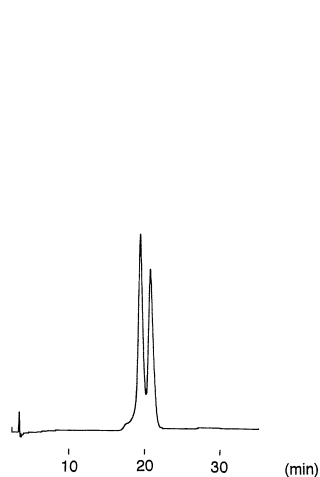
(N020605N)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.53M AcOH - 0.53M TEA (pH 4.0)/acetonitrile (40/60)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : UV at 254 nm
Injection : 5 μ L (1 mg/mL)

フルルビプロフェン
Flurbiprofen

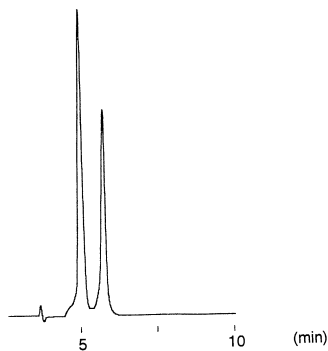
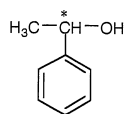
(N020605O)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.53M AcOH - 0.53M TEA (pH 4.0)/methanol (30/70)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : UV at 254 nm
Injection : 2 μ L (1 mg/mL)

ナフチルエチルアルコール
1-(1-Naphthyl)-ethylalcohol

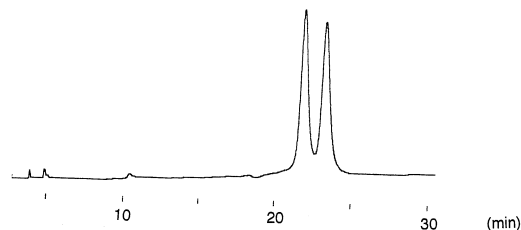
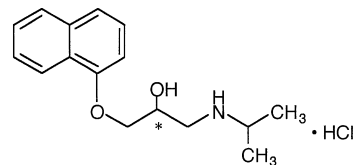
(N020605P)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.2M AcOH - 0.2M TEA (pH 5.6)/methanol (90/10)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm
Injection : 5 μ L (1 mg/mL)

フェニルエチルアルコール
Phenylethylalcohol

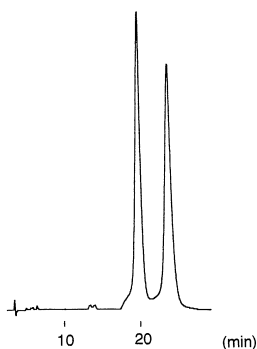
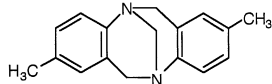
(N020605Q)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.53M AcOH - 0.53M TEA (pH 4.0)/methanol (90/10)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm
Injection : 5 μL (10 mg/mL)

塩酸プロプラノロール
Propranolol hydrochloride

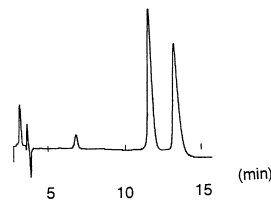
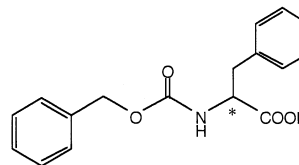
(N020605R)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : acetonitrile/methanol/acetic acid/triethylamine (99/1/0.3/0.25)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : UV at 254 nm
Injection : 5 μL (1 mg/mL)

トレーガー塩基
Troger's base

(N020605S)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.2M AcOH - 0.2M TEA (pH 5.6)/acetonitrile (90/10)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 30
Detection : UV at 254 nm
Injection : 5 μL (1 mg/mL)

CBZ-フェニルアラニン
CBZ-Phenylalanine (Z-Phe-OH)

(N020605T)

Column : YMC CHIRAL -CD BR
250 × 4.6 mm I.D.
Eluent : 0.53M AcOH - 0.53M TEA (pH 4.0)/acetonitrile (60/40)
(TEA=triethylamine)
Flow rate : 1.0 mL/min
Temperature : 25
Detection : UV at 254 nm
Injection : 5 μL (1 mg/mL)