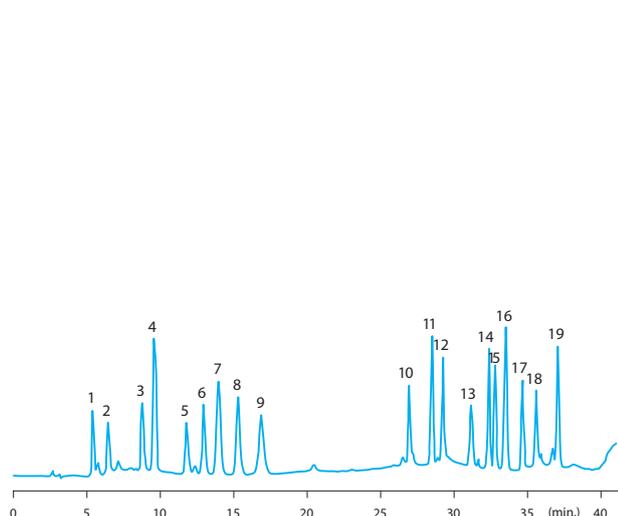


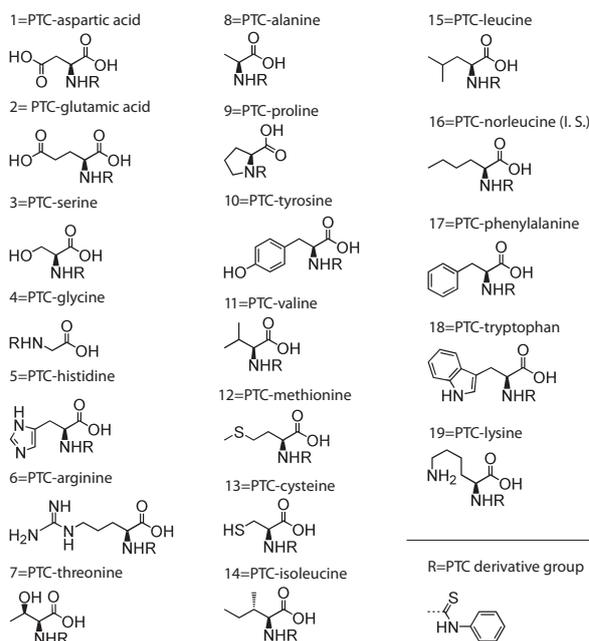
AMINO ACIDS

Amino acids, PTC derivatives

18 amino acids as phenylthiocarbamyl (PTC) derivatives. (ref. 7)



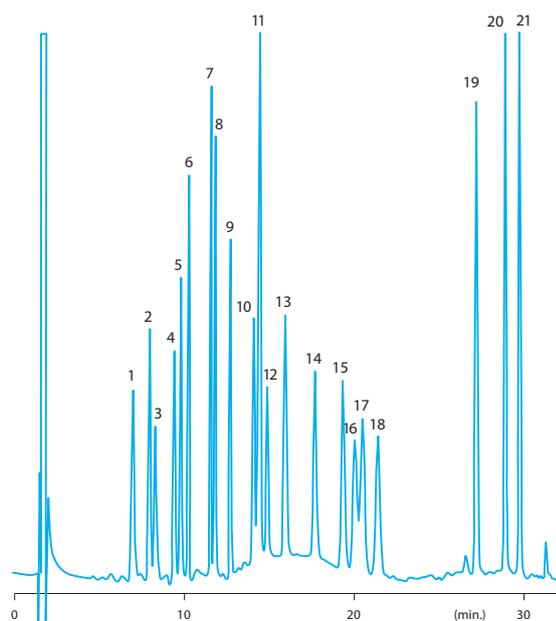
Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 200 mm
 Temperature: 38°C
 Eluent A: 3% ACN in 0.1M sodium acetate
 Eluent B: ACN:water (80:20; v:v)



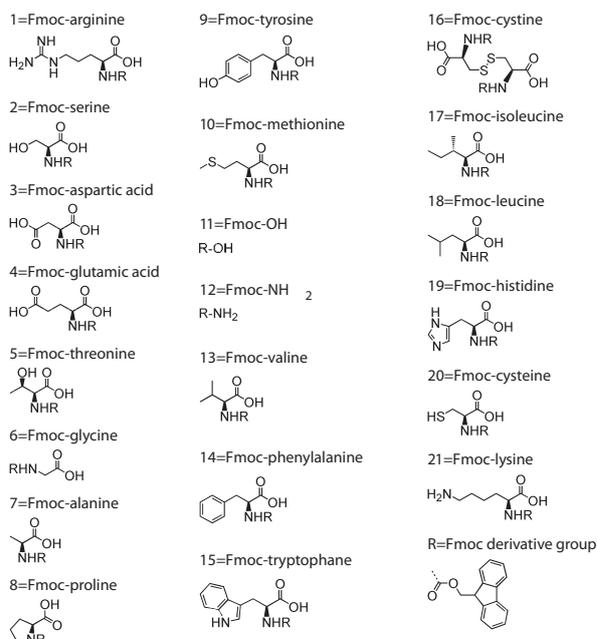
Gradient: Linear gradient elution. 0 min. 0% B, 13 min. 7% B, 23 min. 23% B, 29 min. 35% B, 35 min. 40% B, 40 min. 100% B, 45 min. 100% B, 47 min. 0% B
 Flow rate: 1 ml/min.
 Detection: UV 254 nm

Amino acids, Fmoc-derivatives

Amino-acid analysis for protein and peptide hydrolysates with precolumn Fmoc (9-fluorenyl methylchloroformate) derivatization. (ref. 30)



Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4 x 250 mm
 Temperature: 45°C
 Eluent A: sodium acetate buffer (100 mM, pH 4.4):THF:ACN (75:15:10; v:v:v)
 Eluent B: ACN:THF (85:15; v:v)
 Gradient: 0 – 2.5 min. 0% B, 2.5 – 6.6 min. 7% B, 6.6 – 8.3



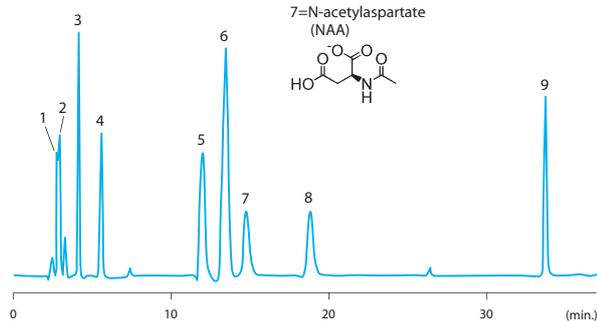
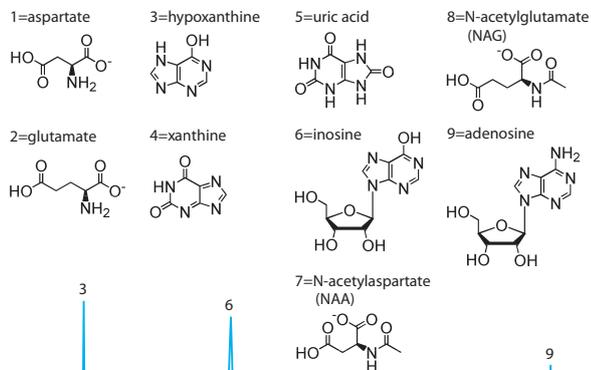
min. 14% B, 8.3 – 8.4 min. 21% B, 8.4 – 10 min. 21% B, 10 – 10.1 min. 17% B, 10.1 – 20 min. 19% B, 20 – 29 min. 55% B, 29 – 30 min. 100% B
 Flow rate: 1.5 ml/min.
 Detection: UV 263 nm

Applications

AMINO ACIDS

Amino acids

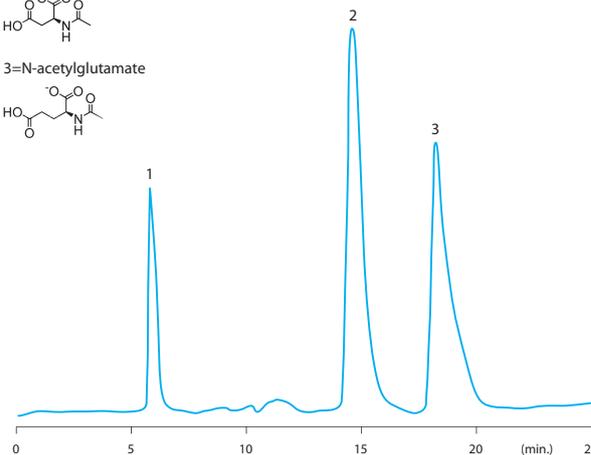
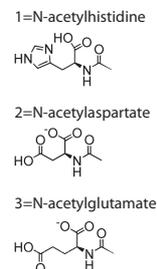
Detection of N-acetylaspartate and N-acetylglutamate in cerebral tissue extracts. (ref. 228)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 23°C
 Eluent: 2.8 mM tetrabutylammonium hydroxide,
 25 mM KH₂PO₄, 1.25% MeOH (pH 7)
 Flow rate: 1 ml/min.
 Detection: UV 210 nm

Amino acids, N-acetylated

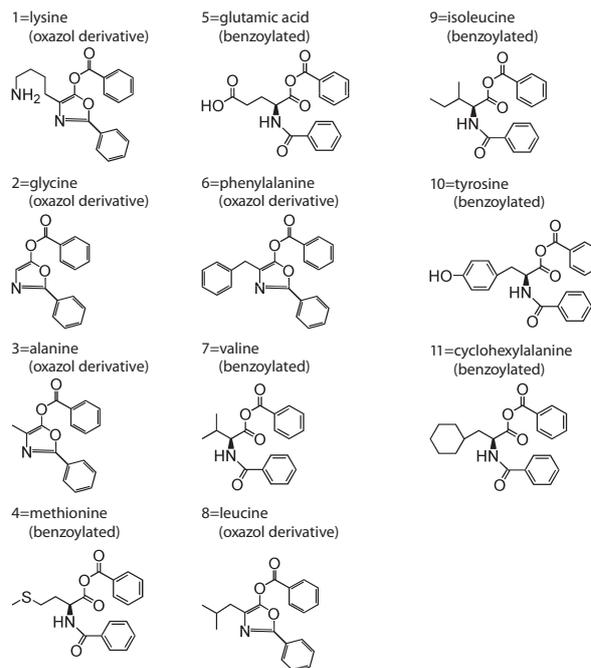
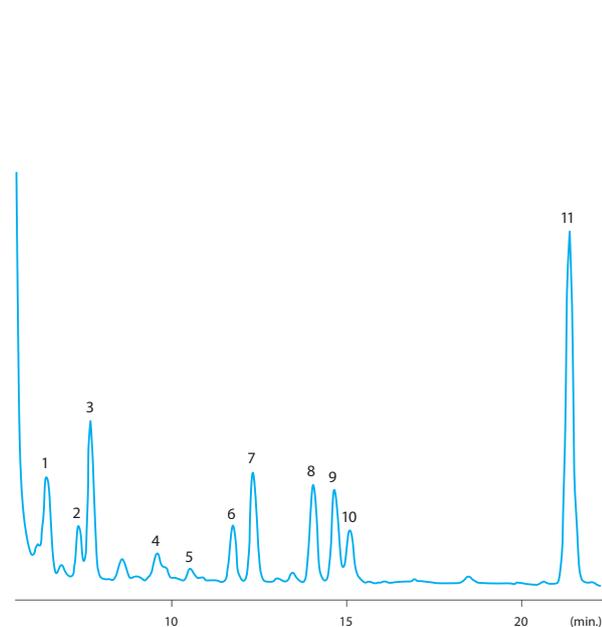
Separation of N-acetylated amino acids. (ref. 348)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 23°C
 Eluent: tetrabutylammonium hydroxide 2.8 mM;
 KH₂PO₄ 25 mM and 1.25% MeOH, pH 7
 Flow rate: 1 ml/min.
 Detection: UV 210 nm

Amino acids, benzoylated

Analysis of benzoylated amino acids. (ref. 51a)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4 x 250 mm
 Eluent: acetonitrile-water mixtures
 Gradient: 70 – 95% ACN in 30 min.
 Flow rate: 1 ml/min.
 Detection: UV 274 nm

AMINO ACIDS

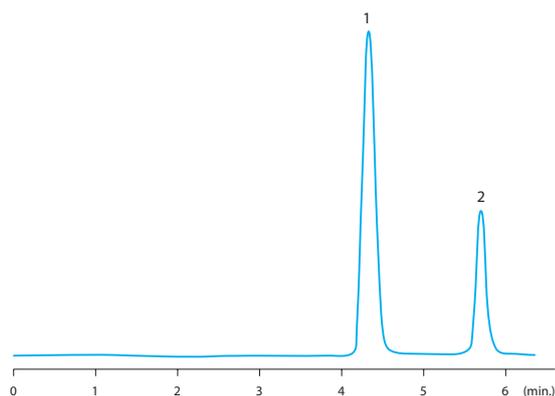
Aminosalicylic acids

Determination of 5-aminosalicylic acid and 3-aminosalicylic acid. (ref. 279)

1=5-aminosalicylic acid



2=3-aminosalicylic acid

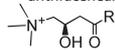


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 200 mm
 Eluent: MeOH:phosphate buffer (35:65; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 254 nm

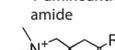
Carnitines, aminoanthracene derivatives

Determination of L-carnitine, acetyl-L-carnitine and propionyl-L-carnitine in human plasma by HPLC with post-column derivatization with 1-aminoanthracene. (ref. 66)

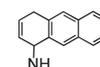
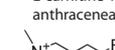
1=L-carnitine 1-aminoanthraceneamide



2=acetyl-L-carnitine 1-aminoanthraceneamide

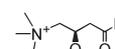


3=methansulfonyl-L-carnitine 1-aminoanthraceneamide

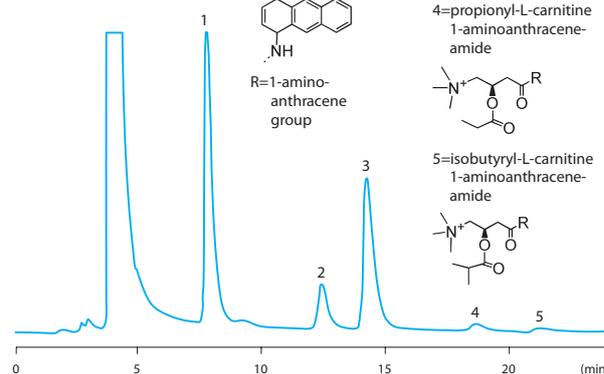
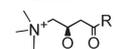


R=1-aminoanthracene group

4=propionyl-L-carnitine 1-aminoanthraceneamide



5=isobutyryl-L-carnitine 1-aminoanthraceneamide



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: ACN:ammonium acetate (0.1 M, pH 3.5) (30:70; v:v)
 Flow rate: 1.3 ml/min.
 Detection: spectrofluorimetric (λ_{ex} 248 nm, λ_{em} 418 nm)

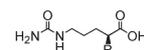
Boronophenylalanine

Determination of boronophenylalanine in biological samples after precolumn derivatization with o-phthalaldehyde (OPA). (ref. 23 7)

1=OPA-aspartic acid



8=OPA-citrulline



15=OPA-valine



2=OPA-glutamic acid



9=OPA-glycine



16=OPA-phenylalanine



3=OPA-asparagine



10=OPA-threonine



17=OPA-isoleucine



4=OPA-histidine



11=OPA-gaminobuturic acid (GABA)



18=OPA-leucine



5=OPA-serine



12=OPA-alanine



19=OPA-ornithine



6=OPA-glutamine



13=OPA-tyrosine



20=OPA-lysine



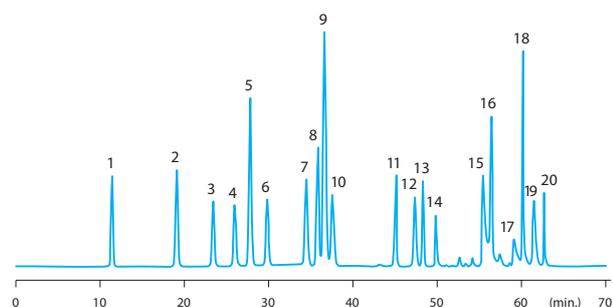
7=OPA-arginine



14=OPA-p-boronophenylalanine



R=OPA derivative group



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 23°C
 Eluent A: 50 mM CH₃COONa (pH 7.4) : 50 mM NaHPO₄ (pH 7.4) : MeOH : THF (48:48:2:2; v:v:v:v)
 Eluent B: MeOH:water (65:35; v:v).

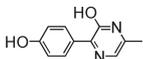
Gradient: 80% A in 3 min, 80% – 70% A in 12 min, 70% – 50% A in 15 min, 50% – 45% A in 10 min, 45% – 20% A in 10 min, 20% – 15% A in 5 min, 15% – 10% A in 3 min, 10% – 0% A in 2 min, 0% A in 15 min.
 Flow rate: 1.2 ml/min.
 Detection: spectrofluorimetric (λ_{ex} 330 nm, λ_{em} 430 nm)

DRUGS AND METABOLITES

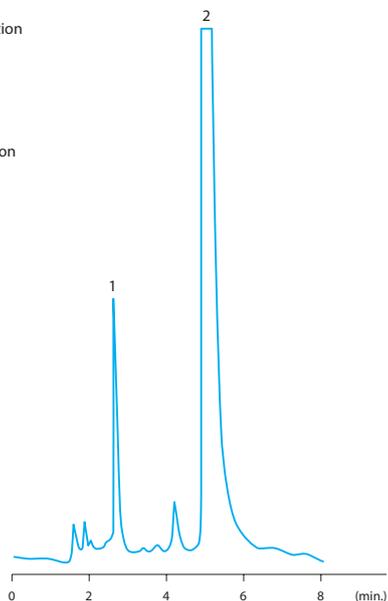
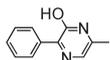
Amoxicillin

Measurement of amoxicillin in gastric tissue samples. (ref. 6)

1=amoxicillin degradation derivative



2=ampicillin degradation derivative (I.S.)

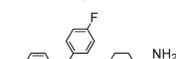


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 3.2 x 150 mm
 Temperature: 40°C
 Eluent: MeOH-water (55:45; v:v)
 Flow rate: 0.4 ml/min.
 Detection: fluorescence (I_{ex} 365 nm, I_{em} 445 nm)

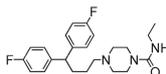
Amperozide

Separation of amperozide, derivate and metabolite. (ref. 45)

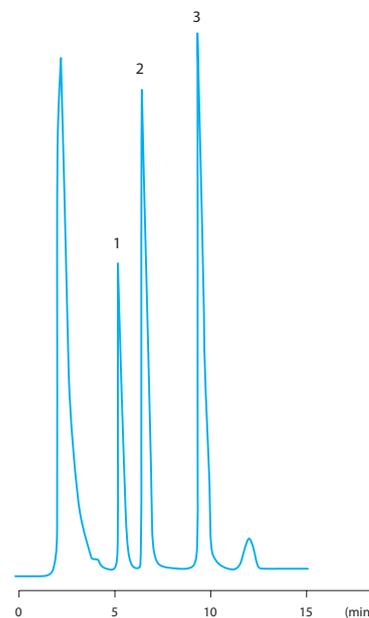
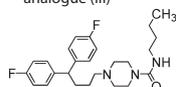
1=amperozide's N-de-ethyl metabolite (II)



2=amperozide (I)



3=amperozide's N-de-ethyl-N-butyl analogue (III)

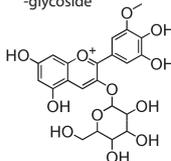


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 2.1 x 200 mm
 Eluent: MeOH:ammonium phosphate buffer (pH 7.8) (78:22; v:v)
 Flow rate: 0.2 ml/min.
 Detection: UV 265 nm

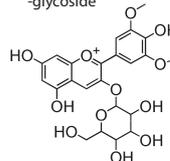
Anthocyanidins

Separation of cyanidin from 3-O- b-glycosylated anthocyanidins. (ref. 347)

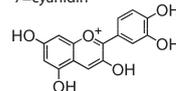
1=petunidin-3-O- b-glycoside



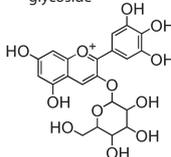
4=malvidin-3-O- b-glycoside



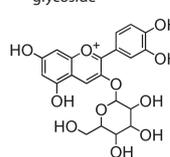
7=cyanidin



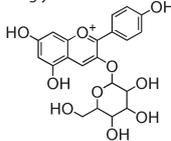
2=delphinidin-3-O- b-glycoside



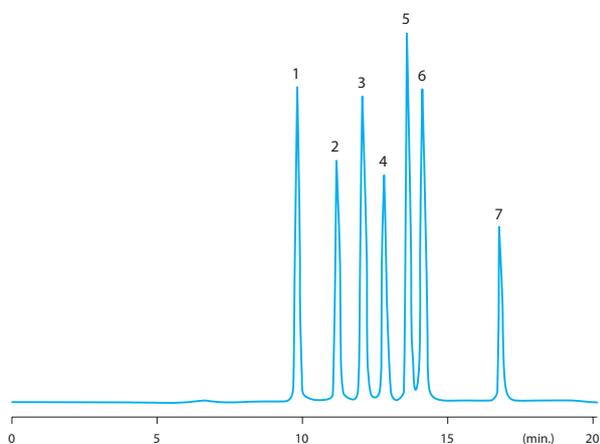
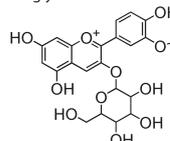
5=cyanidin-3-O- b-glycoside



3=pelargonidin-3-O- b-glycoside



6=peonidin-3-O- b-glycoside



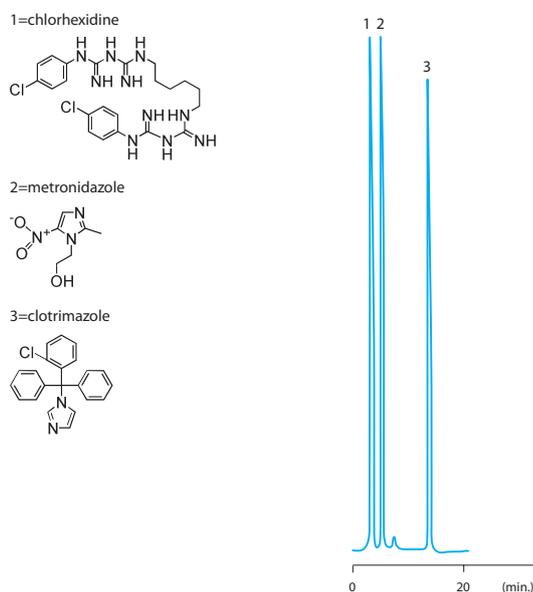
Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 23°C
 Eluent A: HCOOH:water (1:10; v:v)
 Eluent B: HCOOH:water:MeOH (1:9:10; v:v:v)
 Gradient: 0% – 60% A in 5 min., 60% – 45% A in 5 min., 45% – 0% A in 6 min., 0% A in 10 min.

Flow rate: 1.2 ml/min.
 Detection: 520 nm

DRUGS AND METABOLITES

Antibacterial drugs

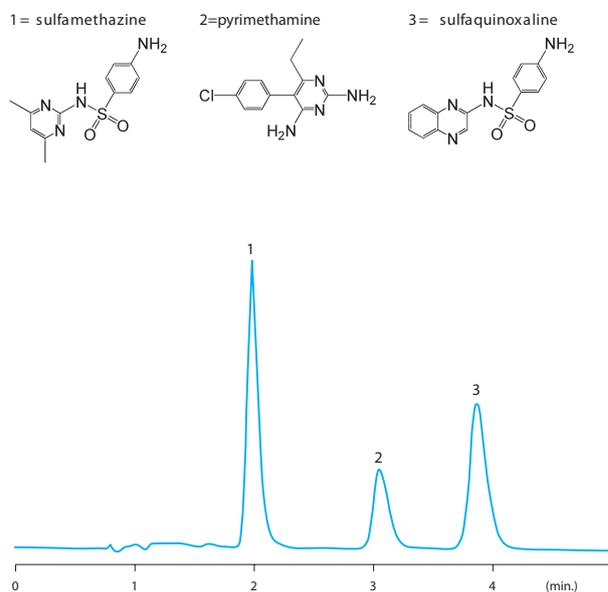
Determination of metronidazole, clotrimazole and chlorhexidine acetate in Shuangzo effervescent tablets. (ref. 23)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: MeOH:buffer (70:30; v:v) (NaAc 24.4 g, HAc 80 ml, (C₄H₉)NBr 4.83 g in 1000 ml water, pH 3.6)
 Flow rate: 1 ml/min.
 Detection: UV 260 nm

Antibacterial drugs, veterinary

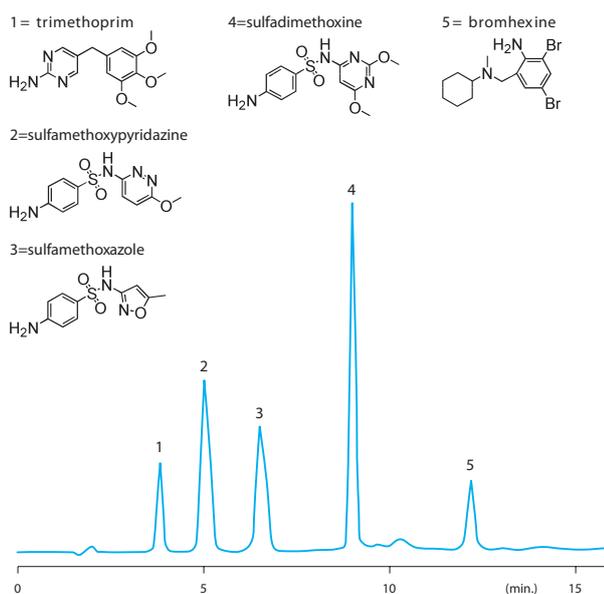
Simultaneous determination of sulfaquinoxaline, sulfamethazine and pyrimethamine. (ref. 246)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 150 mm
 Eluent: 40 mM phosphate buffer (pH 3 containing 10 mM ClO₄⁻): ACN (65:35; v:v)
 Flow rate: 1.5 ml/min.
 Detection: UV 270 nm

Antibacterials, sulfa drugs

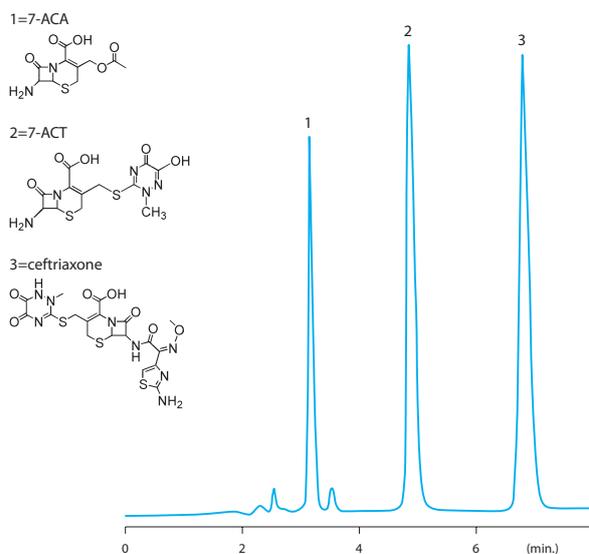
Determination of sulfamethoxyypyridazine, sulfamethoxazole, sulfadimethoxine and associated compounds. (ref. 267)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 150 mm
 Eluent: 10 mM citrate buffer (pH 3):MeOH
 Gradient: 0 min. 31% MeOH, 4 min. 69% MeOH, 14 min. 69% MeOH, 16 min. 31% MeOH
 Flow rate: 1 ml/min.
 Detection: UV 255 nm

Antibiotics and intermediates

Determination of ceftriaxone, 7-aminocephalosporanic acid (7-ACA) and 7-amino-3-[[[(2,5-dihydro-6-hydroxy-2-methyl-5-oxo-1,2,4-triazin-3-yl)-thio]methyl]-cephalosporanic acid (7-ACT). (ref. 129)

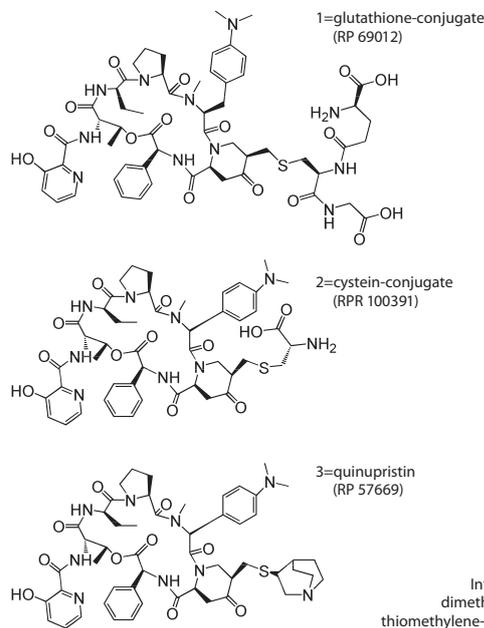
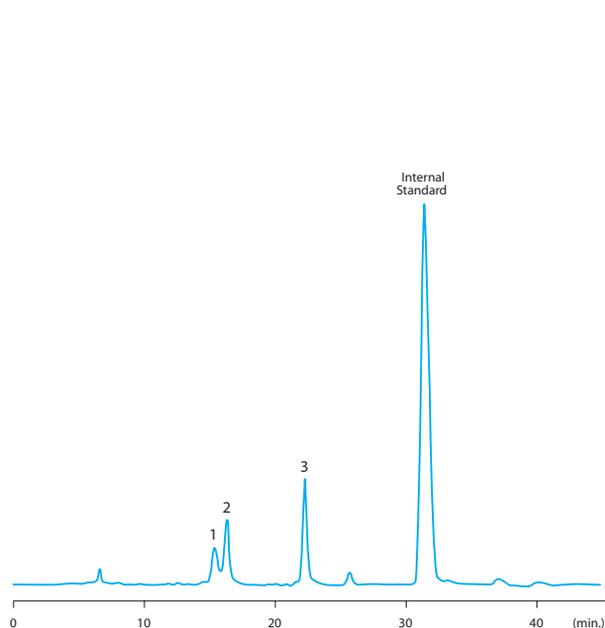


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 200 mm
 Eluent: ACN:tetrabutyl ammonium bromide:phosphate buffer (pH 7):water (32:0.32:4.4:63.6; v:v:v)
 Flow rate: 1 ml/min.
 Detection: UV 270 nm

DRUGS AND METABOLITES

Antibiotics and metabolites

Determination of quinupristin and its main metabolites in human plasma. (ref. 143)

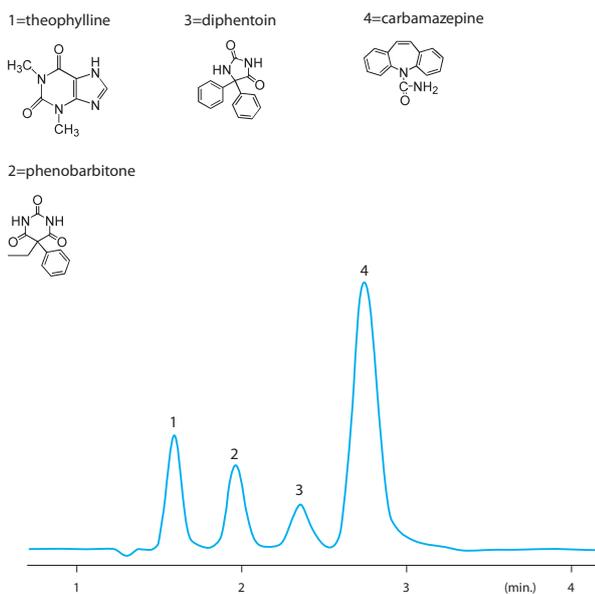


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 125 mm
 Eluent A: 0.8 ml of 70% perchloric acid (PCA) / litre water
 Eluent B: ACN
 Gradient: 30% B for 11 min., 32% B from 11.1 to 15 min., 40% B from 15.6 to 16 min., 38% B from 16.1 to 34 min., 80% B from 34.1 to 36 min.

Flow rate: 0 – 11 min: 0.5 ml/min., 11 – 36 min: 1 ml/min.
 Detection: fluorescence (I_{ex} 360 nm and I_{em} 410 nm)

Anticonvulsants

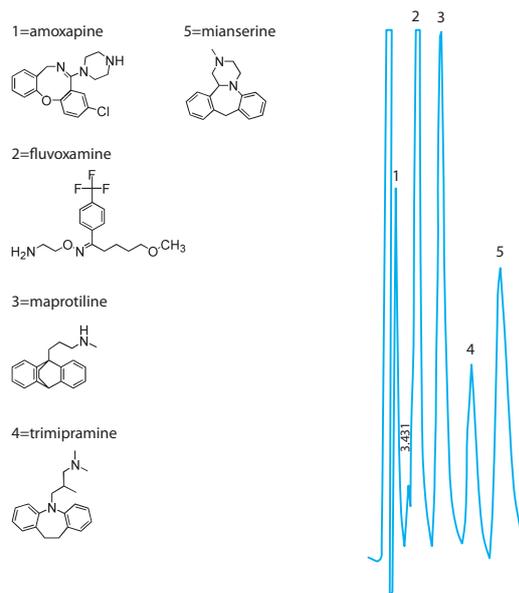
Determination of theophylline, phenobarbitone, diphenoin and carbamazepine. (ref. 301b)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 0.8 x 150 mm
 Eluent: MeOH:water (70:30; v:v)
 Flow rate: 35 µl/min
 Detection: UV 210 nm

Antidepressants

Determination of antidepressant drugs and metabolites. (ref. 49)



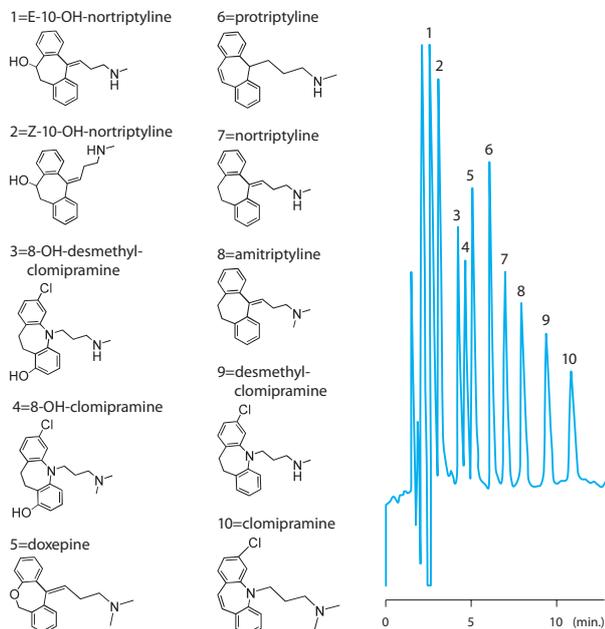
1=amoxapine
 2=fluvoxamine
 3=maprotiline
 4=trimipramine
 5=mianserine

Phase: Kromasil 100 Å, 5 µm, C18
 Column: 2.1 x 150 mm
 Eluent: ACN:phosphate buffer (40:60; v:v) (pH 6.5)
 Flow rate: 0.35 ml/min.
 Detection: UV 220 nm

DRUGS AND METABOLITES

Antidepressants

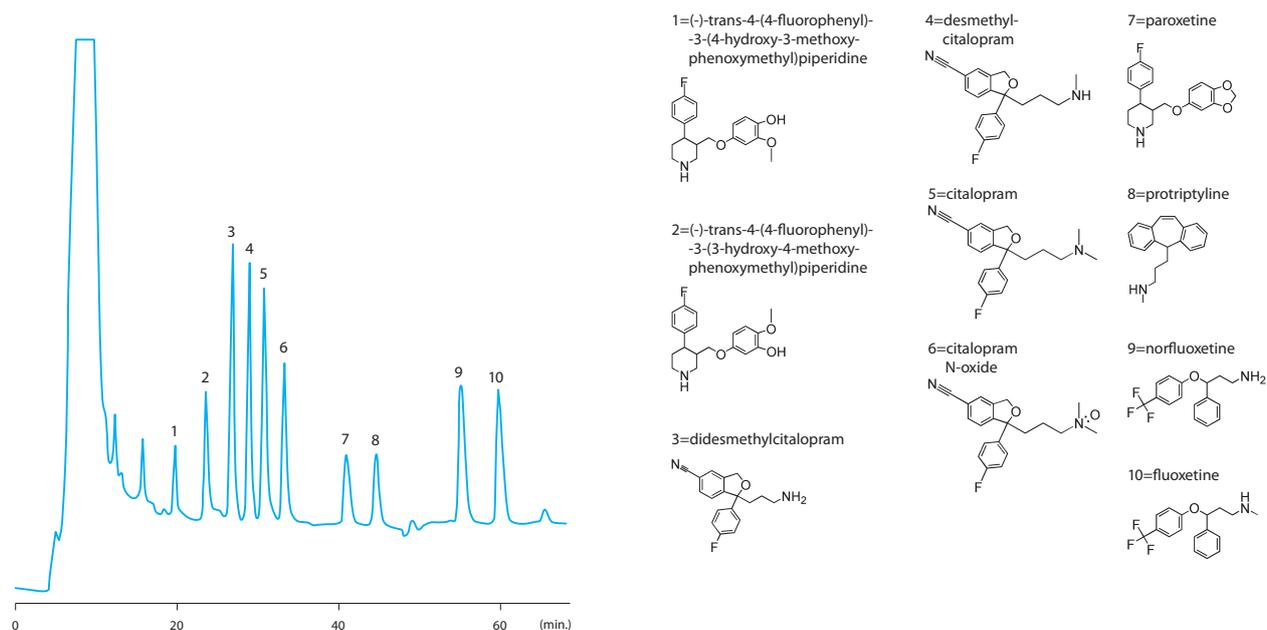
Analysis of amitriptyline and nortriptyline in plasma. (ref. 58)



Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4 x 250 mm
 Temperature: ambient
 Eluent: ACN:KH₂PO₄ (0.04 M) (40:60; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 240 nm

Antidepressants and metabolites

Simultaneous determination of citalopram, fluoxetine, paroxetine and their metabolites in plasma. (ref. 309)



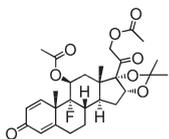
Phase: Kromasil 100 Å, 3.5 µm, C18
 Column: 0.32 x 300 mm
 Temperature: gradient: 35°C (3 min.) prior to ramp of 1.3°C/min. to 100°C (10 min.)
 Eluent: ACN:NH₄HCOO (45 mM, pH 4) (25:75; v:v)
 Flow rate: 5 µl/min
 Detection: UV 230 nm

DRUGS AND METABOLITES

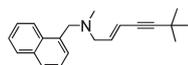
Antifungals

Determination of terbinafine hydrochloride, chlorhexidine and triamcinolone acetonide acetate. (ref. 110)

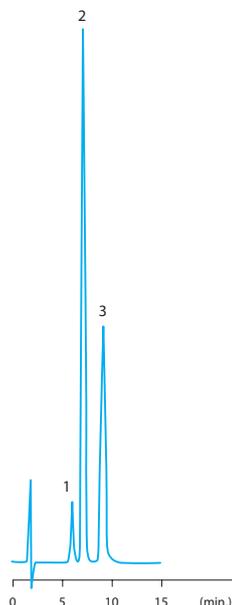
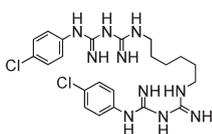
1=triamcinolone acetonide acetate



2=terbinafine



3=chlorhexidine

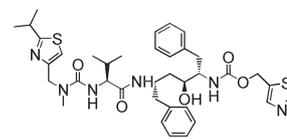


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 200 mm
 Eluent: 0.3% sodium heptanesulphonate in MeOH:water (73:27; v:v), pH 3.2
 Flow rate: 1 ml/min.
 Detection: UV 248 nm

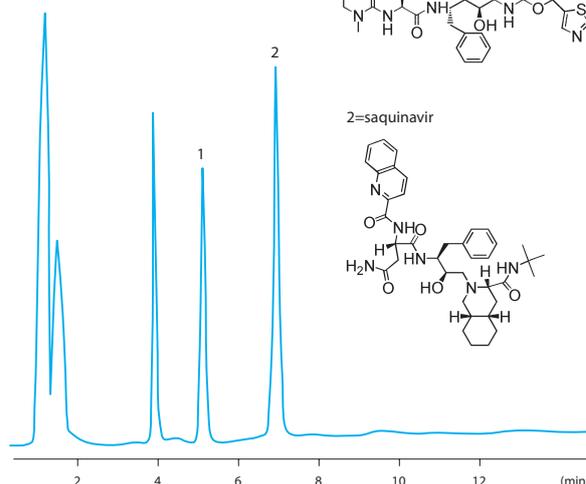
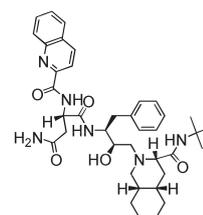
Anti-HIV

Simultaneous determination of ritonavir and saquinavir. (ref. 126)

1=ritonavir



2=saquinavir



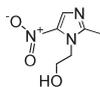
Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 x 150 mm
 Eluent: ACN : 5 mM potassium phosphate monobasic buffer, pH 8 (55:45; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 240 nm

Antimicrobials

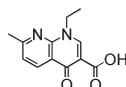
Determination of metronidazole and nalidixic acid. (ref. 156)

1

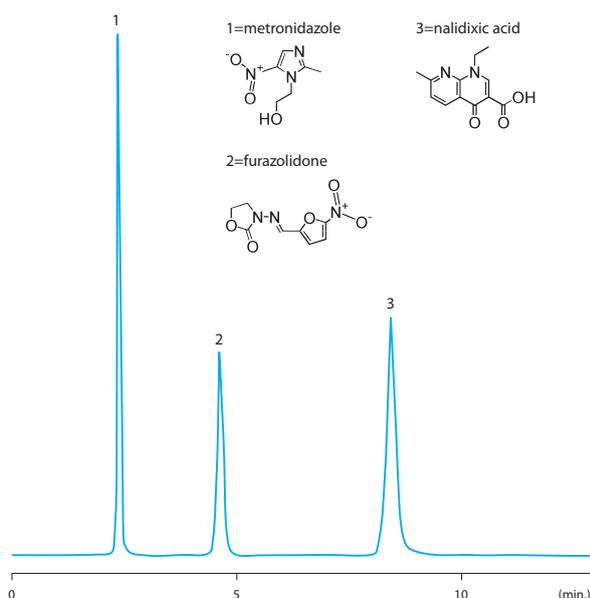
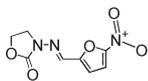
1=metronidazole



3=nalidixic acid



2=furazolidone

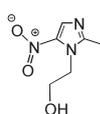


Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 x 250 mm
 Temperature: 20°C ± 1°C
 Eluent: ACN:0.2% triethylamine (pH 3.5) (35:65; v:v)
 Flow rate: 1.5 ml/min.
 Detection: UV 320 nm

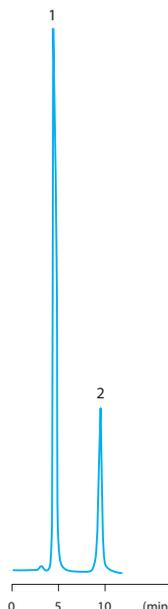
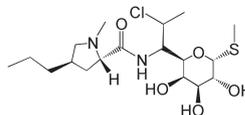
Antimicrobials

Determination of metronidazole and clindamycin. (ref. 268)

1=metronidazole



2=clindamycin

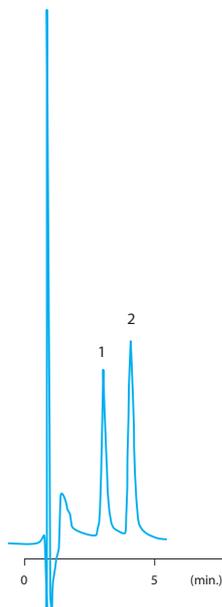
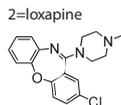
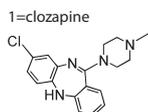


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: Potassium dihydrogen phosphate (pH 3.8, 0.05 M):ACN (79:21; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 210 nm

DRUGS AND METABOLITES

Antipsychotics

Determination of clozapine and loxapine. (ref. 64)

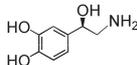


Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 x 150 mm
 Temperature: 31°C
 Eluent: ACN:water (70:30; v:v) 25 mg ammonium acetate /100 ml mobile phase
 Flow rate: 1.4 ml/min.
 Detection: UV 210 nm

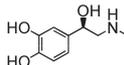
Catecholamines

Determination of catecholamines in pig liver. (ref. 95a)

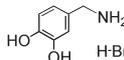
1=norepinephrine



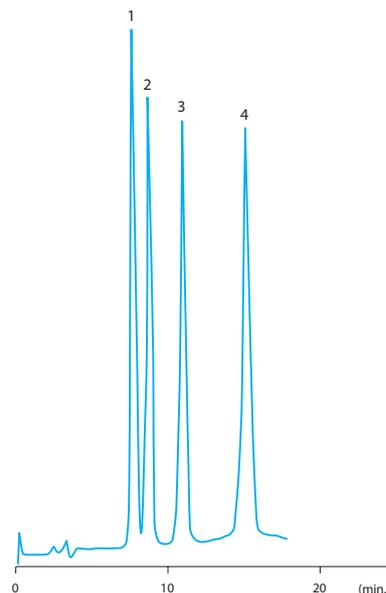
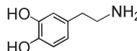
2=epinephrine



3=3,4-dihydroxy-benzylamine hydrobromide



4=dopamine

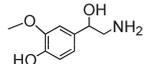


Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 x 150 mm
 Eluent: 300 ml MeOH + 1.5 ml 1-octanesulfonic acid (200 mg/ml) + 100 ml 1 M NaAc + about 1 litre water (pH 3.8). Volume adjusted to 2 litres with water.
 Flow rate: 0.6 ml/min.
 Detection: electrochemical potential +0.65 V

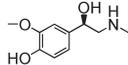
Catecholamines

Determination of methoxycatecholamines in pig liver. (ref. 95b)

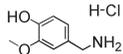
1=normetanephrine



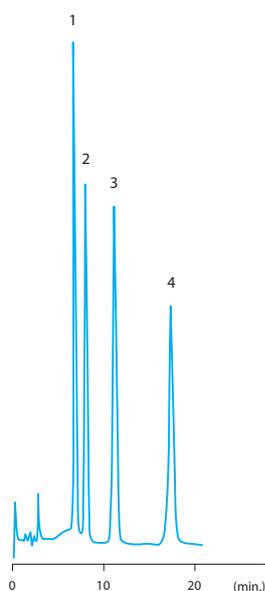
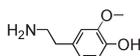
2=metanephrine



3=4-hydroxy-3-methoxy-benzylamine hydrochloride



4=3-O-methyldopamine

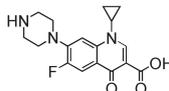


Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 x 150 mm
 Eluent: 300 ml MeOH + 1.5 ml 1-octanesulfonic acid (200 mg/ml) + 100 ml 1 M NaAc + about 1 litre water (pH 3.8). Volume adjusted to 2 litres with water.
 Flow rate: 1.1 ml/min.
 Detection: electrochemical potential +0.8 V

Ciprofloxacin

Determination of ciprofloxacin in pharmaceutical preparations and biological fluids. (ref. 26)

1=ciprofloxacin



2=anthranilic acid



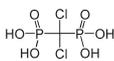
Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: ambient
 Eluent: ACN:MeOH:acetate buffer (pH 3.6; 50 mM) (10:30:60; v:v:v) containing 1% v/v HAC
 Flow rate: 0.8 ml/min.
 Detection: fluorescence (I_{ex} 300 nm, I_{em} 458 nm)

DRUGS AND METABOLITES

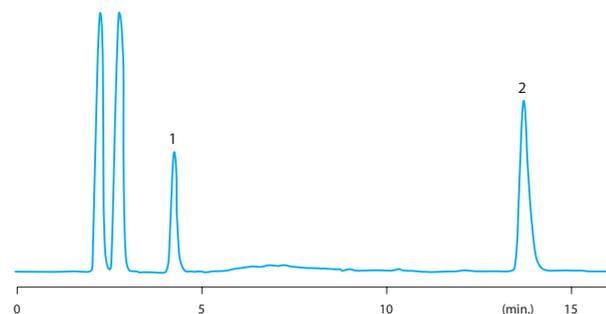
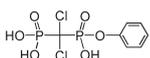
Clodronate

Simultaneous determination of clodronate and its partial ester derivative. (ref. 97)

1=clodronate



2=clodronate monophenylester

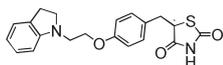


Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 x 250 mm
 Eluent: MeOH:ammonium acetate buffer (0.1 M + 0.23 M butylamine, pH 4.6)
 Gradient: linear gradient elution: methanol from 3 to 40 – 60% for between 1.0 and 6.0 min. (not specified)
 Flow rate: 1.2 ml/min.
 Detection: ELS

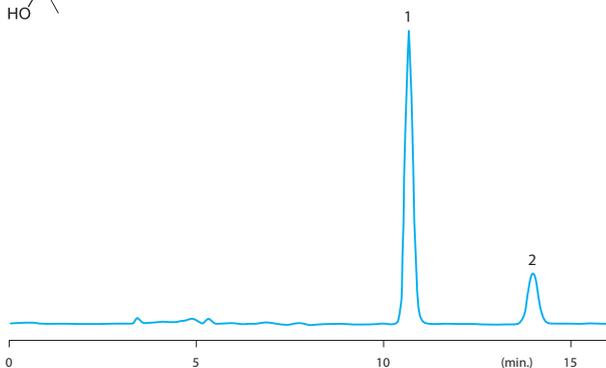
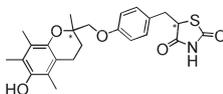
DRF-2189

Determination of the insulin sensitizing agent DRF-2189 in rat plasma. (ref. 161)

1=insulin sensitizing agent DRF-2189



2=troglistazone

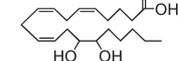


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: 0.05 M NaH₂PO₄:ACN:MeOH (22.5:37.5:40; v:v) (pH 5.0)
 Flow rate: 1 ml/min.
 Detection: fluorescence (λ_{ex} 292 nm and λ_{em} 325 nm)

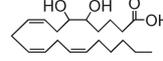
Cytochrome P450 metabolites

Analysis of cytochrome P450 metabolites of arachidonic acid. (ref. 10)

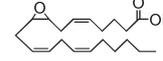
1=14,15-DHET



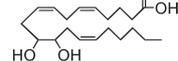
4=5,6-DHET



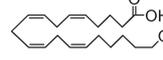
8=8,9-EET



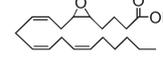
2=11,12-DHET



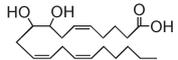
5=20-HETE



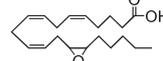
9=5,6-EET



3=8,9-DHET

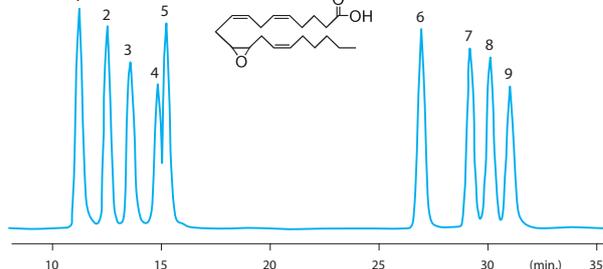
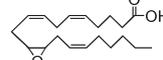


6=14,15-EET



DHET=dihydroxy-eicosatrienoic acids
 HETE=hydroxy-eicosatetraenoic acids
 EET=epoxy-eicosatrienoic acids

7=11,12-EET

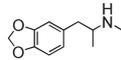


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 2 x 250 mm
 Eluent: water/ACN with 0.005% HAC
 Gradient: 0 min. 60% ACN, 30 min. 80% ACN, 35 min. 100% ACN 40 min. 100% ACN
 Flow rate: 0.2 ml/min.
 Detection: ESI-MS

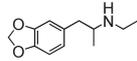
Ecstasy analogues

Identification of a homologue derivative of "ecstasy". (ref. 170)

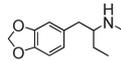
1=N-methyl-1-(1,3-benzodioxol-5-yl)-2-propanamine (MDMA)



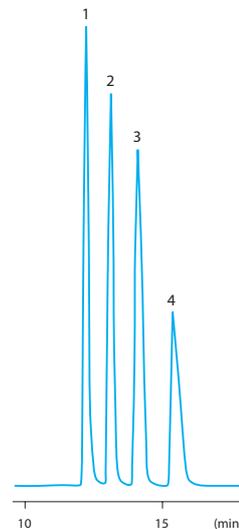
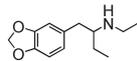
2=N-ethyl-1-(1,3-benzodioxol-5-yl)-2-propanamine (MDEA)



3=N-methyl-1-(1,3-benzodioxol-5-yl)-2-butanamine (MBDB)



4=N-ethyl-1-(1,3-benzodioxol-5-yl)-2-butanamine (EBDB)

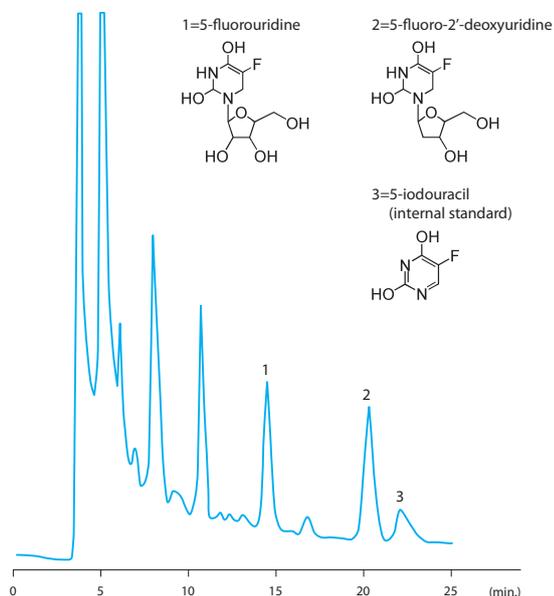


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: ambient
 Eluent: ACN:0.1 M triethylammonium acetate (aq) pH 7.3
 Gradient: 5% to 80% ACN in 25 min.
 Flow rate: 1 ml/min.
 Detection: UV 280 nm

DRUGS AND METABOLITES

5-fluorouracil metabolites

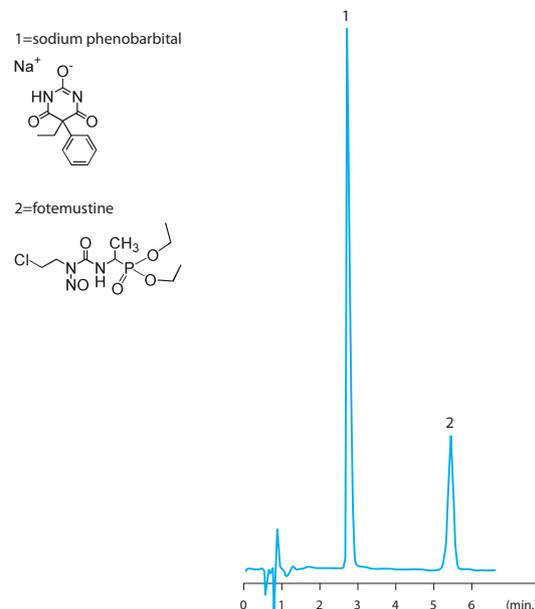
Determination of the main metabolites of 5-fluorouracil in plasma. (ref. 116)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 150 mm
 Temperature: 20°C (ambient)
 Eluent: MeOH:water (3:97; v:v)
 Flow rate: 0.6 ml/min.
 Detection: UV 275 nm

Fotemustine

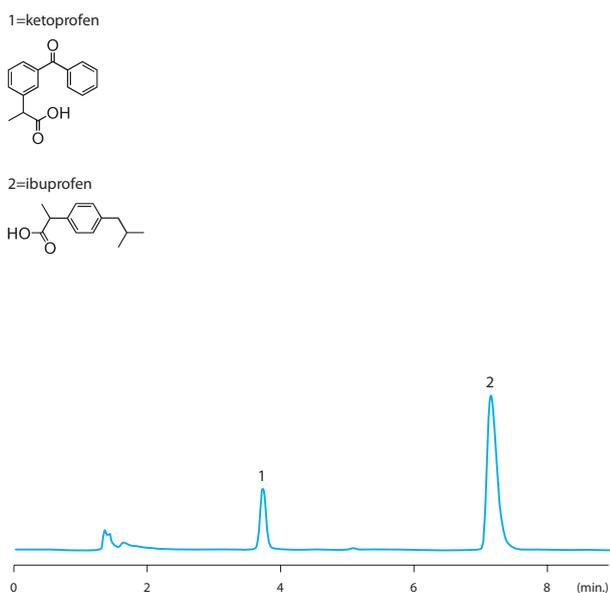
Stability study of fotemustine in PVC infusion bags. (ref. 124)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 150 mm
 Temperature: ambient
 Eluent: ACN:ammonium acetate buffer (0.05 M, pH 4.5) (30:70; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 230 nm

Ketoprofen

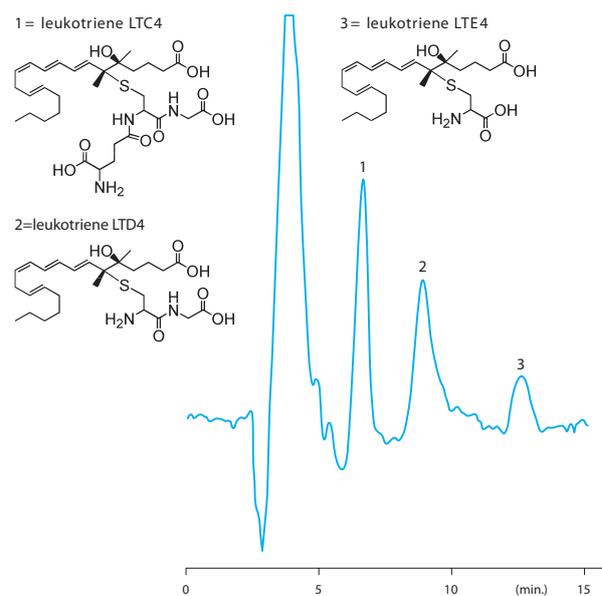
Determination of ketoprofen in vitro in rat skin. (ref. 247)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4 x 250 mm
 Temperature: 40°C
 Eluent: ACN:0.01 M potassium phosphate (pH 1.5) (60:40; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 260 nm

Leukotrienes, cross-reactive

Determination of cross-reactive leukotrienes in biological matrices. (ref. 71a)

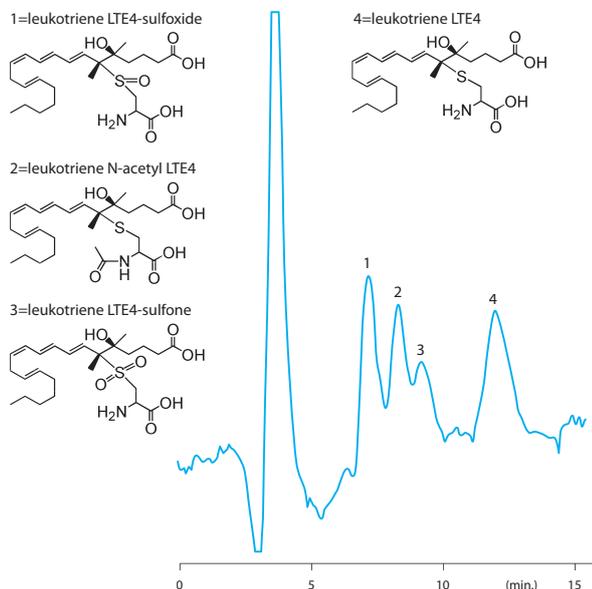


Phase: Kromasil 100 Å, 5 µm, C4
 Column: 2.1 x 100 mm
 Eluent: ACN:K₂HPO₄ 10 mM (pH 7.4) (30:70; v:v)
 Flow rate: 0.2 ml/min.
 Detection: fluorescence (I_{ex} 544 nm, I_{em} 572 nm)

DRUGS AND METABOLITES

Leukotrienes, cross-reactive

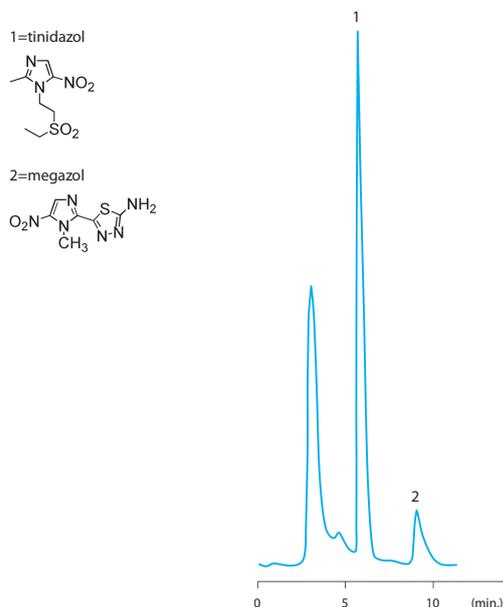
Determination of cross-reactive leukotrienes in biological matrices. (ref. 71b)



Phase: Kromasil 100 Å, 5 µm, C4
 Column: 2.1 ¥ 100 mm
 Eluent: ACN:K₂HPO₄ 10 mM (pH 7.4) (30:70; v:v)
 Flow rate: 0.2 ml/min.
 Detection: fluorescence (I_{ex} 544 nm, I_{em} 572 nm)

Megazol

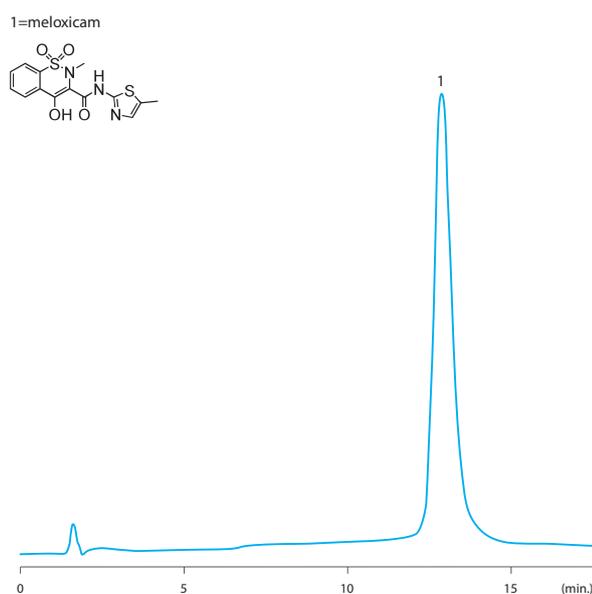
Analysis of megazol in human plasma. (ref. 113)



Phase: Kromasil 100 Å, 10 µm, C8
 Column: 4 ¥ 250 mm
 Temperature: ambient
 Eluent: phosphate buffer (0.068 M, pH 3):MeOH:ACN (65:20:15; v:v:v)
 Flow rate: 0.7 ml/min.
 Detection: UV 360 nm

Meloxicam

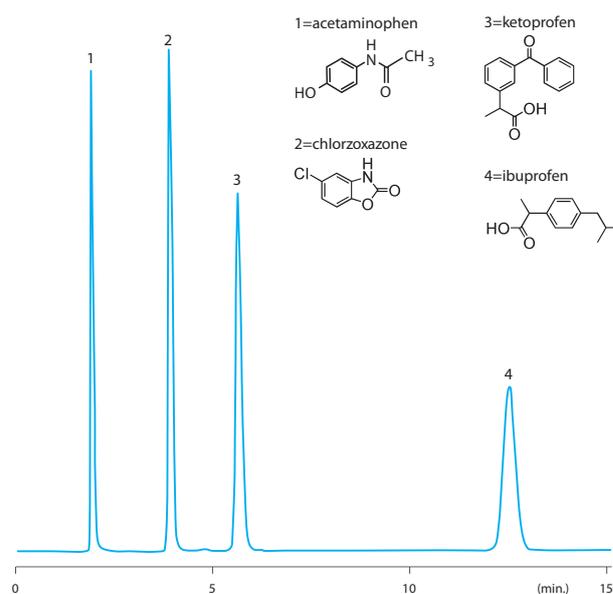
Determination of meloxicam in human plasma. (ref. 283)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 ¥ 150 mm
 Eluent: MeOH:water:ACN:HAc (600:500:50:20; v:v:v:v) + 1.01 g sodium heptanesulfonate
 Flow rate: 1 ml/min.
 Detection: UV 355 nm

Pain relievers

Determination of acetaminophen, ibuprofen and chlorzoxazone. (ref. 154)

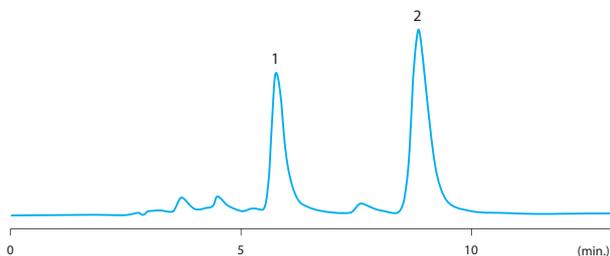
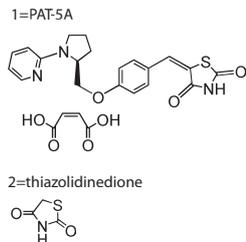


Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 ¥ 250 mm
 Temperature: 20±1°C
 Eluent: ACN:0.2% triethylamine (pH 3.2) (50:50; v:v)
 Flow rate: 1.5 ml/min.
 Detection: UV 215 nm

DRUGS AND METABOLITES

PAT-5A

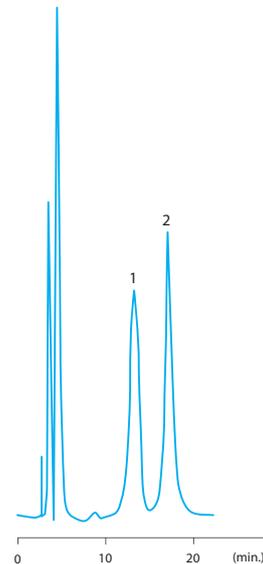
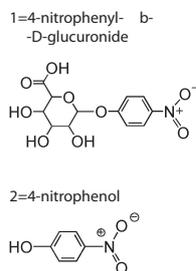
Determination of PAT-5A (5[4-[N-(20pyridyl)-(2s)-pyrrolidine-2-methoxy]phenylmethylene]-thiazolidine-2,4-dione, maleic acid salt), an insulin sensitizing agent, in rat plasma. (ref. 244)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: NaH₂PO₄ (0.05 M, pH 4):MeOH (25:75; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 345 nm

Phenolics

Separation of phenolic compounds and corresponding glucuronides. (ref. 103)

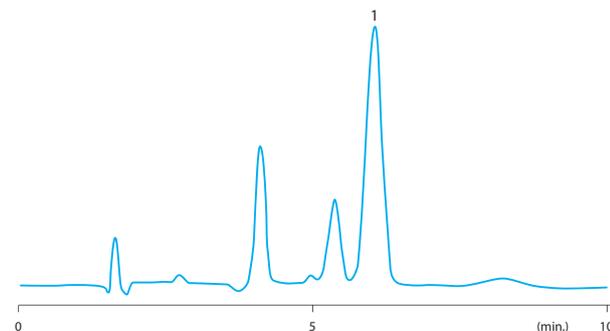
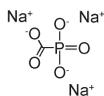


Phase: Kromasil 100 Å, 5 µm, C18
 Precolumn: Nucleosil 5µm, C4
 Column: 4.6 x 100 mm (precolum: 4.6 x 50 mm)
 Temperature: ambient
 Eluent: 30 mM cetyltrimethylammonium bromide in 0.05 M 6-aminohexanoic acid (pH: 5) and 20% ACN (precolum 7%) (v:v)
 Flow rate: 1 ml/min.
 Detection: UV 300 nm

Phosphonoformate (fosfarnet)

Determination of phosphonoformate (fosfarnet) in human serum. (ref. 217)

1=phosphonoformate (fosfarnet)

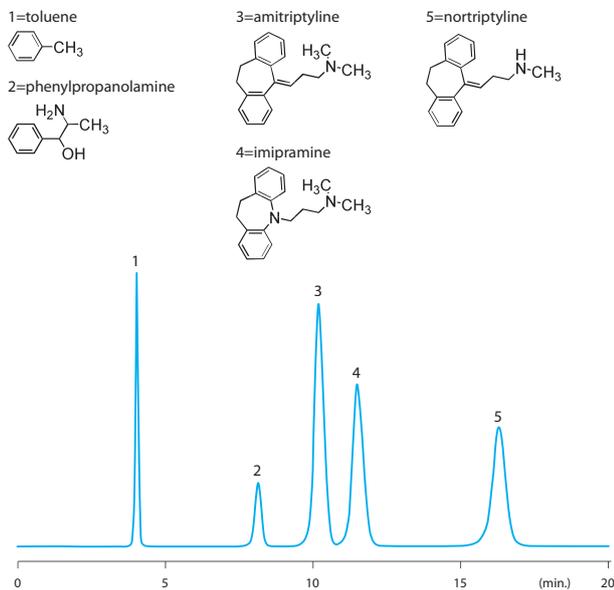


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 150 mm
 Eluent: methanol : 40 mM Na₂HPO₄-buffer, pH 7.6 (adjusted with orthophosphoric acid), containing 0.25 mM THAHSO₄ (25:75; v:v)
 Flow rate: 1 ml/min.
 Detection: electrochemical (potential +1.125 V)

DRUGS AND METABOLITES

QC test, tricyclic antidepressants

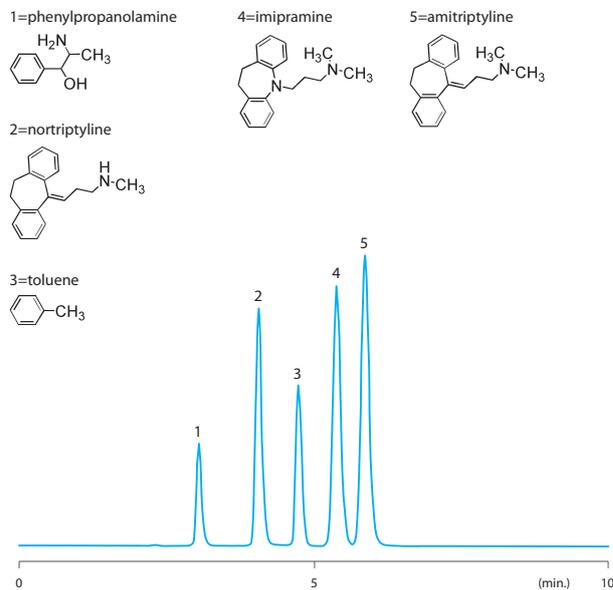
QC test of Kromasil CN. (ref. 342)



Phase: Kromasil 60 Å, 10 µm, CN
 Column: 4.6 x 250 mm
 Temperature: ambient
 Eluent: MeOH:KH₂PO₄ 25 mM pH 6.0 (80:20; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 215 nm

QC test, tricyclic antidepressants

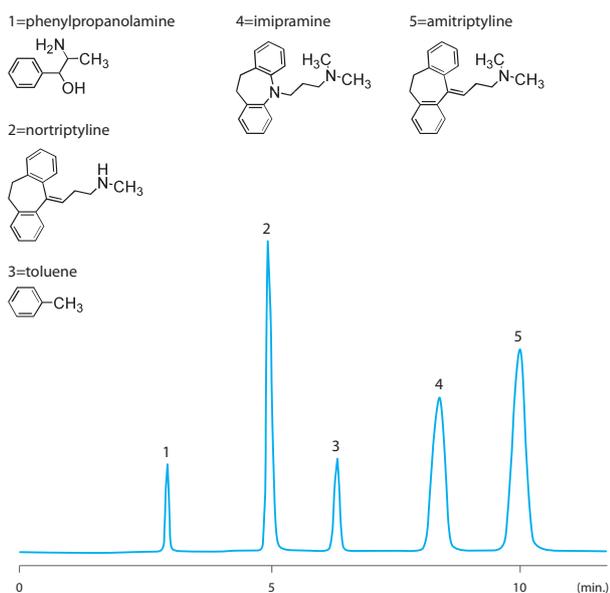
QC test of Kromasil C4. (ref. 349)



Phase: Kromasil 100 Å, 5 µm, C4
 Column: 4.6 x 250 mm
 Temperature: ambient
 Eluent: MeOH:KH₂PO₄ 25 mM pH 6.0 (80:20; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 215 nm

QC test, tricyclic antidepressants

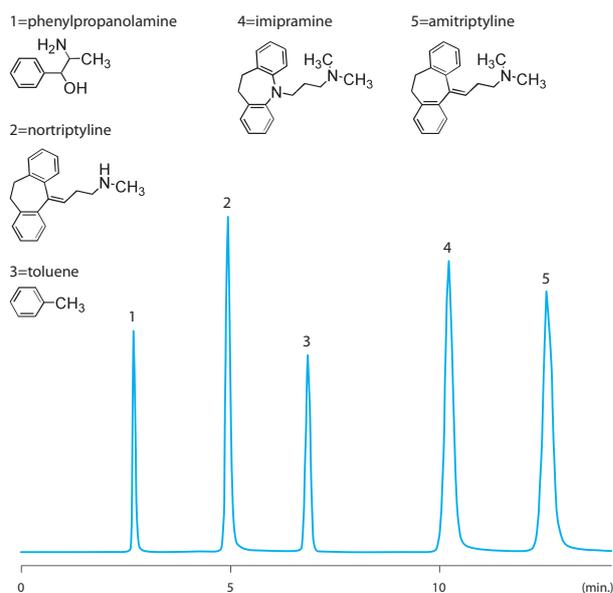
QC test of Kromasil C8. (ref. 350)



Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 x 250 mm
 Temperature: ambient
 Eluent: MeOH:KH₂PO₄ 25 mM pH 6.0 (80:20; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 215 nm

QC test, tricyclic antidepressants

QC test of Kromasil C18. (ref. 351)



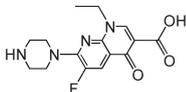
Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: ambient
 Eluent: MeOH:KH₂PO₄ 25 mM pH 6.0 (80:20; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 215 nm

DRUGS AND METABOLITES

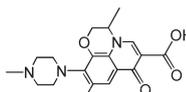
Quinolines

Determination of quinolines in food. (ref. 119)

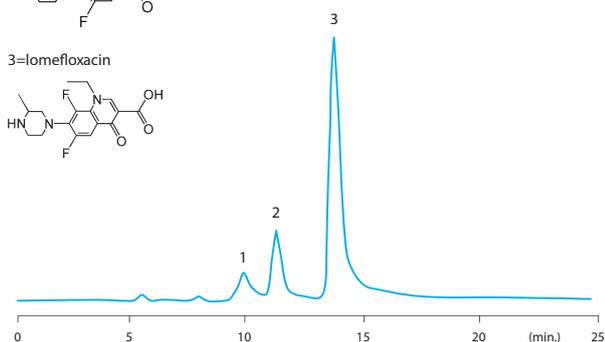
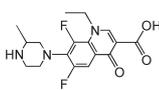
1=enoxacin



2=ofloxacin



3=lomefloxacin

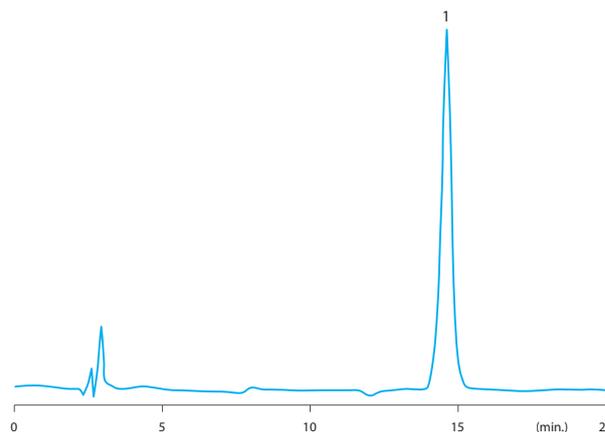
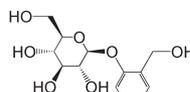


Phase: Kromasil 100 Å, 5 µm, C8
 Column: 3.2 x 250 mm
 Eluent: oxalic acid (0.01M):ACN:MeOH (6:3:1; v:v:v)
 Flow rate: 0.5 ml/min.
 Detection: fluorescence (λ_{em} 445 nm, λ_{ex} 278 nm)

Salicin

Determination of salicin in extract of willow bark. (ref. 262)

1=salicin



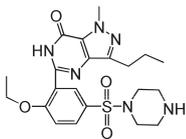
Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: MeOH:KH₂PO₄ buffer (pH 4.01, 0.01 M) (15:85; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 265 nm

Sildenafil

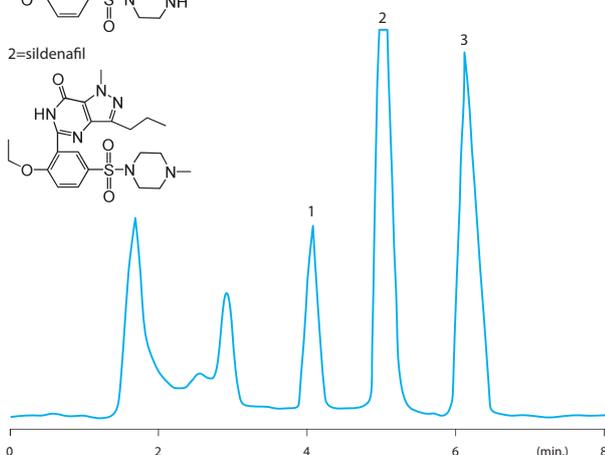
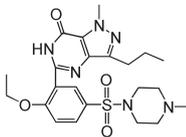
Determination of sildenafil (Viagra) and its metabolite (UK 103320) with ASTED equipment. (ref. 98)

1=metabolite UK 103320

3=reference compound



2=sildenafil

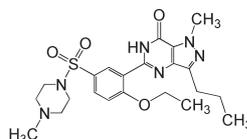


Phase: Kromasil 100 Å, 5 µm, C4
 Column: 4.6 x 100 mm
 Temperature: 40°C
 Eluent: A CN:potassium phosphate buffer (0.5 M, pH 4.5, containing 10 mM diethylamine HCl):water (28:4:68; v:v:v)
 Flow rate: 1.5 ml/min.
 Detection: UV 230 nm

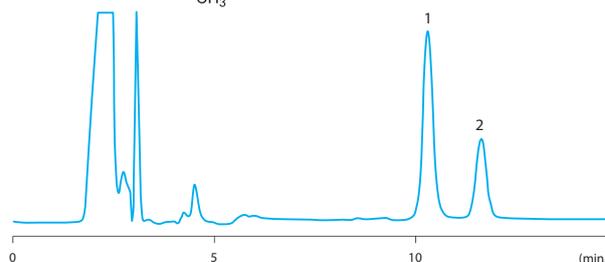
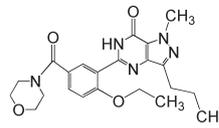
Sildenafil

Determination of sildenafil citrate (Viagra). (ref. 254)

1=sildenafil



2=Internal Standard (UK114542-27)

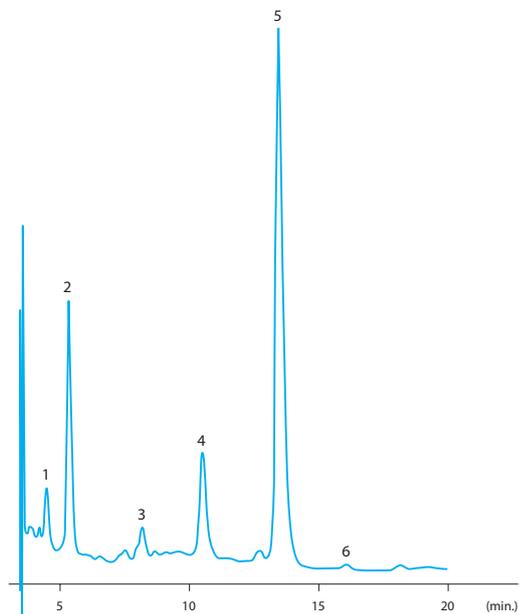


Phase: Kromasil 100 Å, 5 µm, C4
 Column: 4.6 x 150 mm
 Temperature: 40°C
 Eluent: ACN : 0.5 M potassium phosphate buffer (pH 4.5; containing 10 mM diethylamine HCl) (32:68; v:v)
 Flow rate: 0.7 ml/min.
 Detection: UV 230 nm

DRUGS AND METABOLITES

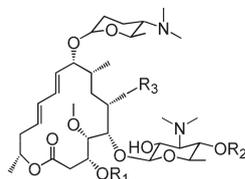
Spiramycin

Determination of spiramycin in pig liver. (ref. 94)

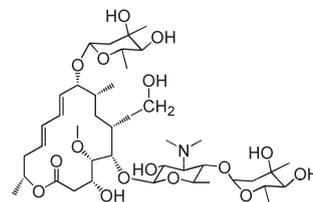


Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 x 250 mm
 Temperature: 60°C
 Eluent: CH₃CN:sodium phosphate buffer (0.05 M pH 2.3) (33:67; v:v) + 6 g/l NaClO₄
 Flow rate: 1.1 ml/min.
 Detection: UV 232 nm

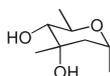
1, 2, 3, 4 and 6= substituted base structure according to table



5=spiramycin S



a-mycarose



timonacic

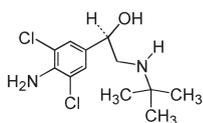


	R1	R2	R3
1. cysteyle neospiramycin I	H	H	timonacic
2. cysteyle spiramycin I	H	a-mycarose	timonacic
3. spiramycin I + cysteyle neospiramycin III	H	a-mycarose	COH
4. cysteyle spiramycin III	COCH ₂ CH ₃	H	timonacic
5. spiramycin S	COCH ₂ CH ₃	a-mycarose	timonacic
6. spiramycin III	COCH ₂ CH ₃	a-mycarose	COH

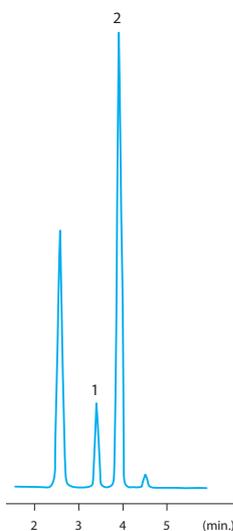
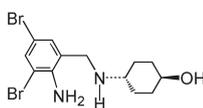
Steroids

Analysis of clenbuterol hydrochloride and ambroxol hydrochloride. (ref. 331)

1=clenbuterol



2=ambroxol

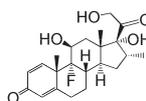


Phase: Kromasil 60 Å, 10 µm, CN
 Column: 4.6 x 250 mm
 Eluent: 1.8 g sodium decanesulphate + 3 g potassium phosphate monobasic + 600 ml water (pH 3.0) + 200 ml ACN + 200 ml MeOH
 Flow rate: 1.5 ml/min.
 Detection: UV 215 nm

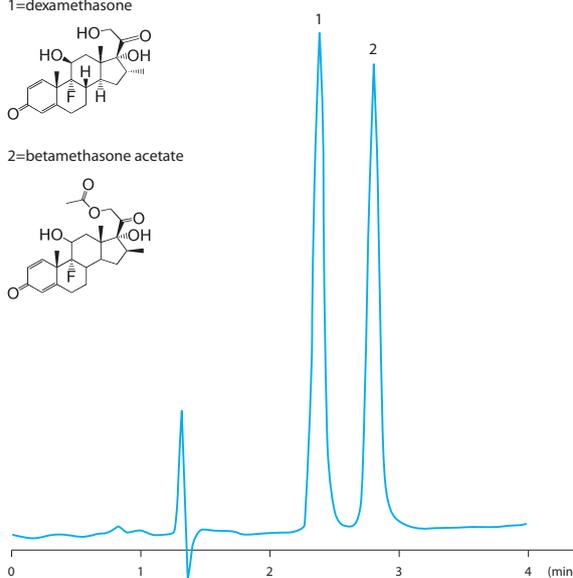
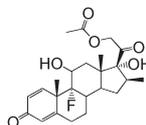
Steroids

Analysis of dexamethasone and betamethasone acetate in bovine liver. (ref. 272a)

1=dexamethasone



2=betamethasone acetate

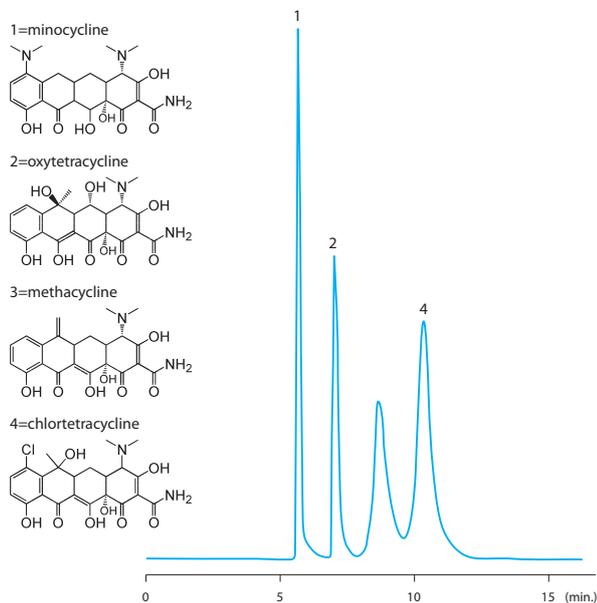


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4 x 150 mm
 Eluent: MeOH:water (80:20; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 240 nm

DRUGS AND METABOLITES

Tetracyclines

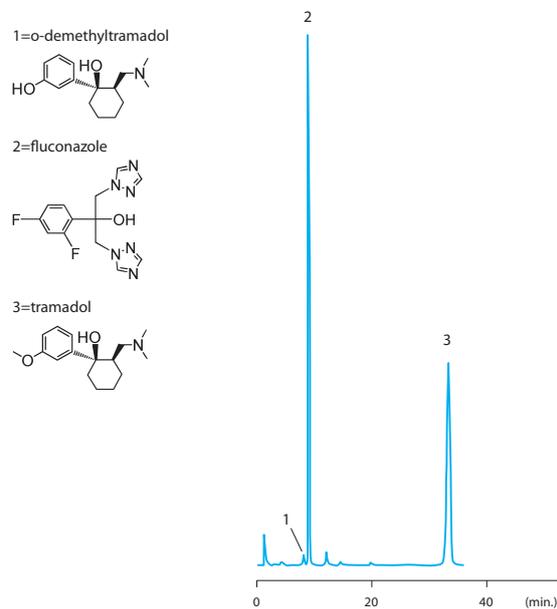
Determination of tetracyclines as chelates with aluminum(III). (ref. 273)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: ACN:DMF:0.05 M citric acid-sodium citrate buffer (pH 2.5) (5:20:75; v:v:v)
 Flow rate: 0.7 ml/min.
 Detection: fluorescence (I_{ex} 380 nm and I_{em} 480 nm)

Tramadol

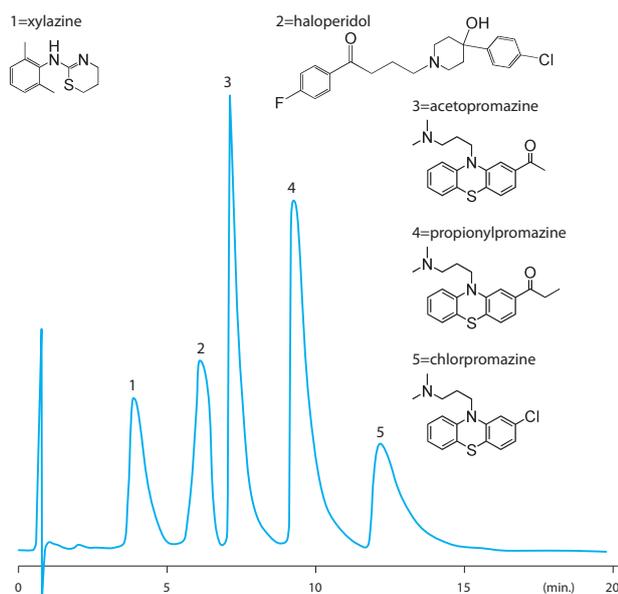
Determination of tramadol and its active metabolite in human plasma. (ref. 130)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4 x 250 mm
 Temperature: 30°C ± 3°C
 Eluent: acetonitrile:water (19:81, v:v) cont. 0.06 M NaH₂PO₄ and 0.05 M triethylamine, adjusted to pH 7.90
 Flow rate: 1 ml/min.
 Detection: fluorescence (I_{ex} 207 nm and I_{em} 300 nm)

Tranquilizers, veterinary

Analysis of xylazine, haloperidol, acetopromazine, propionylpromazine and chlorpromazine in bovine liver. (ref. 272b)

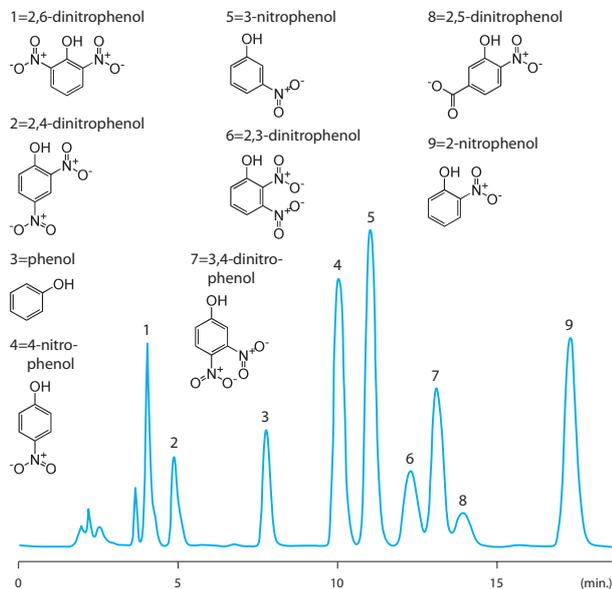


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4 x 150 mm
 Eluent: MeOH:water (80:20; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 240 nm

ENVIRONMENTAL

Nitrophenols

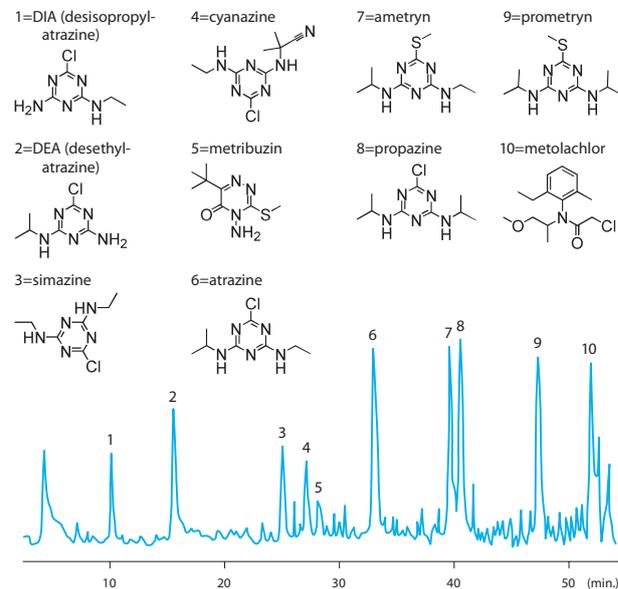
Determination of toxic nitrophenols in the atmosphere. (ref. 183)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.4 x 250 mm
 Eluent: A:B (55:45; v:v) A: 0.005 M KH₂PO₄ (pH 4.5 with H₃PO₄); ACN (90:10; v:v) B: 0.005 M KH₂PO₄ (pH 4.5 with H₃PO₄); MeOH (25:75; v:v)
 Flow rate: 1 ml/min.
 Detection: 230 nm

Organonitrogen pesticides

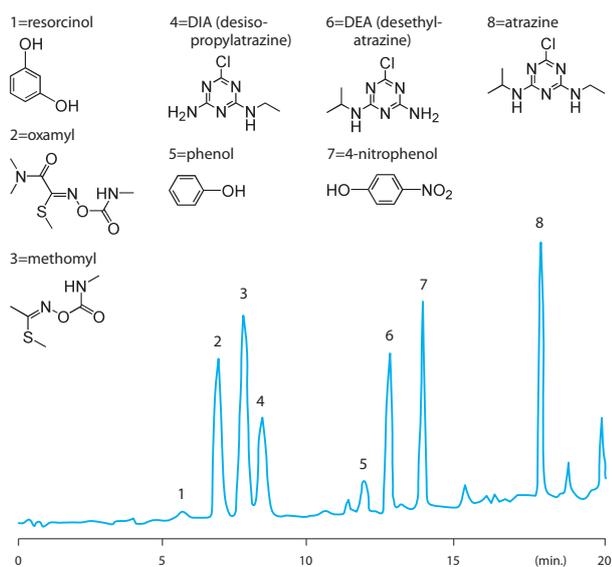
Determination of organonitrogen pesticides in large volumes of surface water. (ref. 132)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: Gradient, ACN:water, 15 – 60% ACN for 50 min, 60% for 15 min
 Flow rate: 1 ml/min.
 Detection: APCI-MS

Pesticides and metabolites

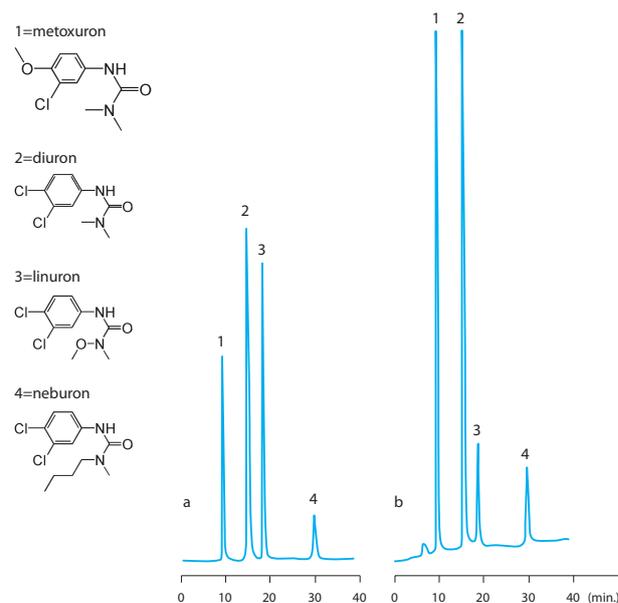
Analysis of polar phenolic compounds, pesticides and metabolites in water. (ref. 167)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 65°C
 Eluent: ACN:water (pH 3 adjusted with sulfuric acid)
 Gradient: From 15 to 25% ACN in 9.3 min., to 50% ACN in 4.3 min., to 100% ACN in 6 min. and then 2 min. isocratic elution at 100% ACN.
 Flow rate: 1 ml/min.
 Detection: UV 280 or 240 nm

Phenylurea herbicides

Determination of phenylurea herbicides in water. (ref. 32)

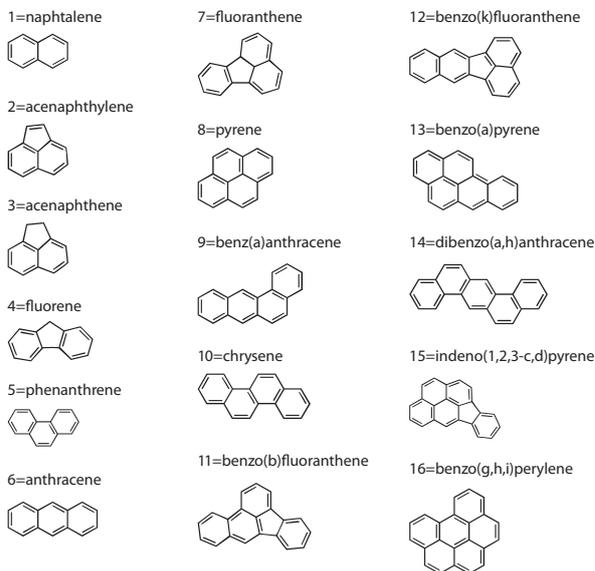
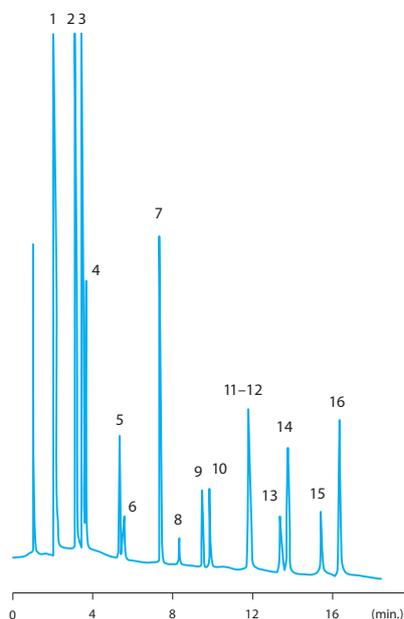


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 1 x 300 mm
 Eluent: MeOH:water (75:25; v:v) in 0.01 M lithium perchlorate at pH 5.5 (adjusted with 1% phosphoric acid)
 Flow rate: 20 – 40 µl/min
 Detection: UV 254 nm and electrochemical (potential 1,35 V) respectively for the figures

ENVIRONMENTAL

Polycyclic aromatic hydrocarbons

Analysis of polycyclic aromatic hydrocarbons. (ref. 184)

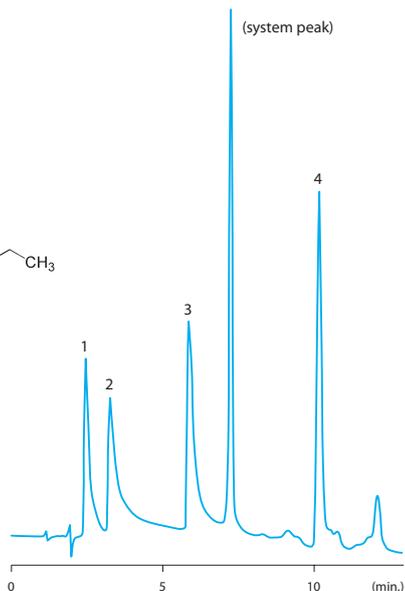
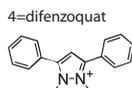
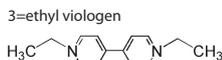
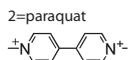


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 40°C
 Eluent: CO₂:ACN
 Gradient: 0 min. 100% CO₂, 20 min. 60% CO₂,
 25 min. 60% CO₂

Flow rate: 3 ml/min.
 Detection: UV 210 nm

Quaternary ammonium herbicides

Determination of quaternary ammonium herbicides. (ref. 201)

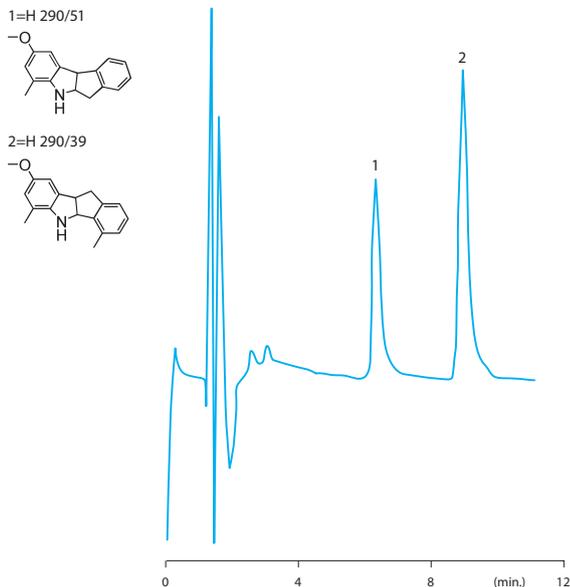


Phase: Kromasil 100 Å, 5 µm, C8
 Column: 2.1 x 200 mm
 Temperature: 50°C
 Eluent: Pentafluoropropionic acid in water (15 mM, pH 3.3) : ACN
 Gradient: 0 min. 2% ACN, 5 min. 8.6% ACN, 5.01 min. 40%
 ACN, 13 min. 40% ACN
 Flow rate: 200 µl/min.
 Detection: UV

FOOD AND NUTRITION

Antioxidants, lipophilic

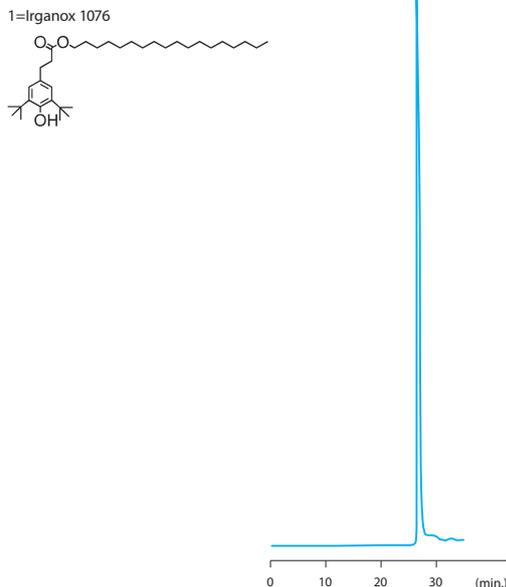
Determination of lipophilic antioxidants in plasma. (ref. 53)



Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 x 150 mm
 Eluent: Tris (50 mM), HCl (12 mM) and 65% ACN (pH 8.5)
 Flow rate: 1 ml/min.
 Detection: electrochemical, potential +0.70 V

Irganox

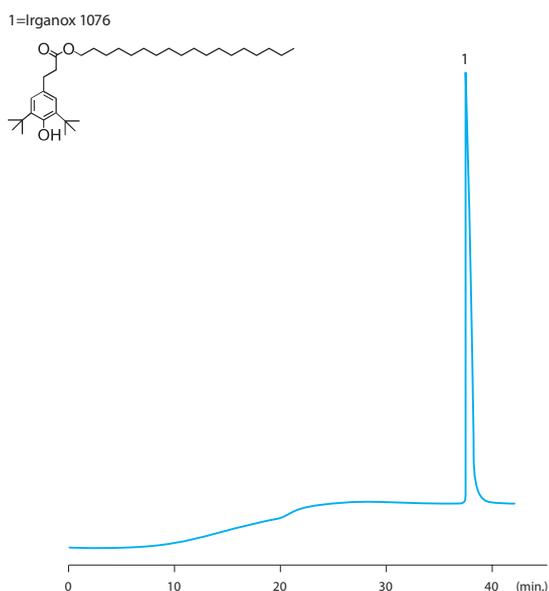
Determination of Irganox (an antioxidant). (ref. 20)



Phase: Kromasil 100 Å, 3.5 µm, C18
 Column: 0.25 x 250 mm
 Temperature: gradient: 5°C/min. from 5 to 40°C, 2°C/min. from 40 to 80°C, 5°C/min. from 80 to 90°C
 Eluent: ACN + 10mM TEA +HCOOH
 Flow rate: 5 µl/min.
 Detection: ELS

Irganox

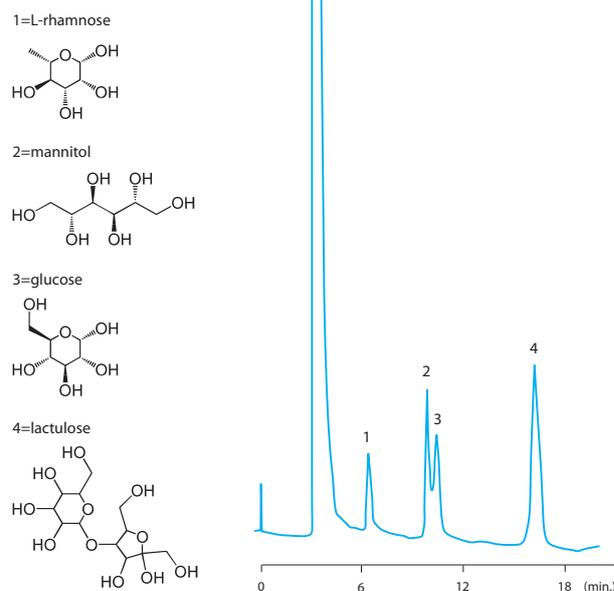
Determination of Irganox. (ref. 208)



Phase: Kromasil 100 Å, 5 µm, C18
 Temperature: from 7 to 90°C at 3°C/min.
 Column: 0.32 x 500 mm
 Eluent: ACN
 Flow rate: 5 µl/min
 Detection: UV 280 nm

Sugars

Analysis of sugars in urine. (ref. 82)

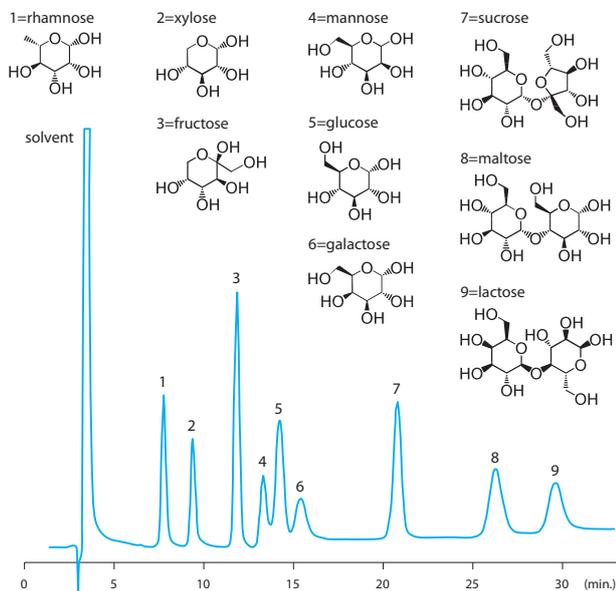


Phase: Kromasil 100 Å, 5 µm, NH
 Column: 4.6 x 250 mm
 Temperature: ambient
 Eluent: ACN:water (70:30; v:v)
 Flow rate: 1 ml/min.
 Detection: refractive index

FOOD AND NUTRITION

Sugars

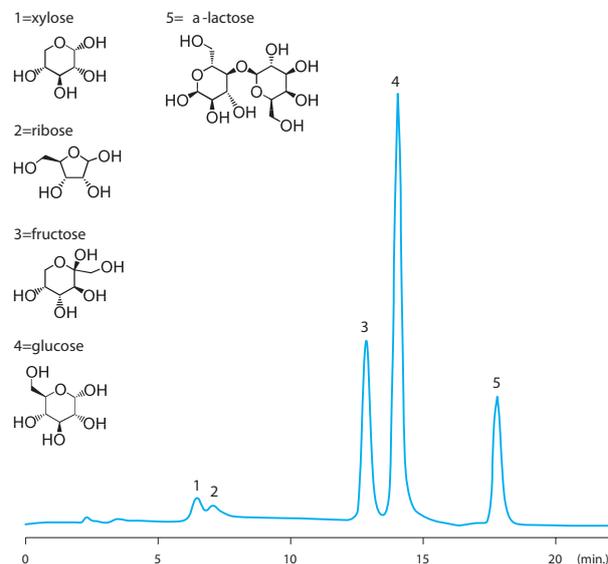
Analysis of sugars. (ref. 315)



Phase: Kromasil 100 Å, 5 µm, NH₂
 Column: 4.6 x 250 mm
 Eluent: ACN:water (75:25; v:v)
 Flow rate: 1 ml/min.
 Detection: RI

Sugars, phosphorylated

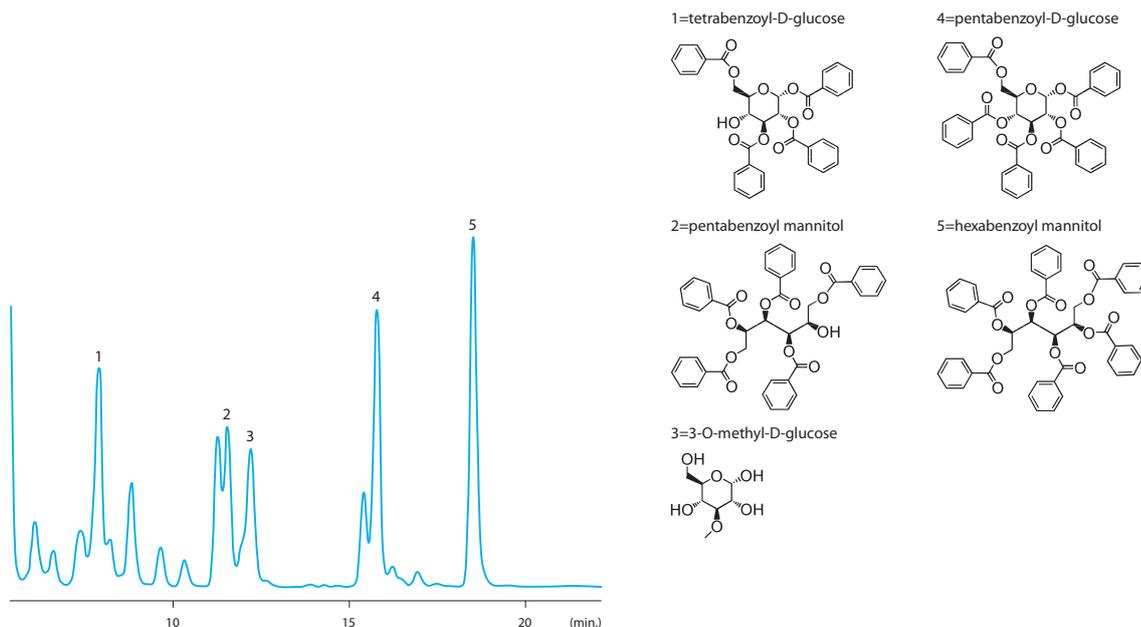
Determination of reducing sugars in beef sirloin, with post-column reduction. (ref. 27)



Phase: Kromasil 100 Å, 5 µm, NH₂
 Column: 4 x 250 mm
 Eluent: ACN:water (85:15; v:v) at pH 4.8
 Flow rate: 1.4 ml/min.
 Post column: Post-column reduction at 95°C with tetrazolium blue (0.7 mM in distilled water and 0.16 M NaOH, 15% EtOH, 0.047M Na-K-tartrate, pH 12.7) before detection.
 Detection: 550 nm

Sugars and polyols, benzoylated

Analysis of benzoylated sugars and polyols. (ref. 51b)

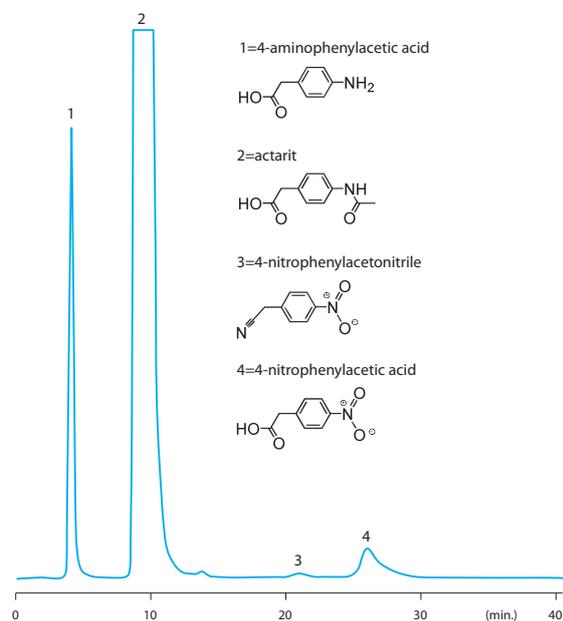


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4 x 250 mm
 Eluent: Gradient, ACN-water, 0 min. 70% ACN, 30 min. 95% ACN
 Flow rate: 1 ml/min.
 Detection: UV 228 nm

NATURAL PRODUCTS

Actarit

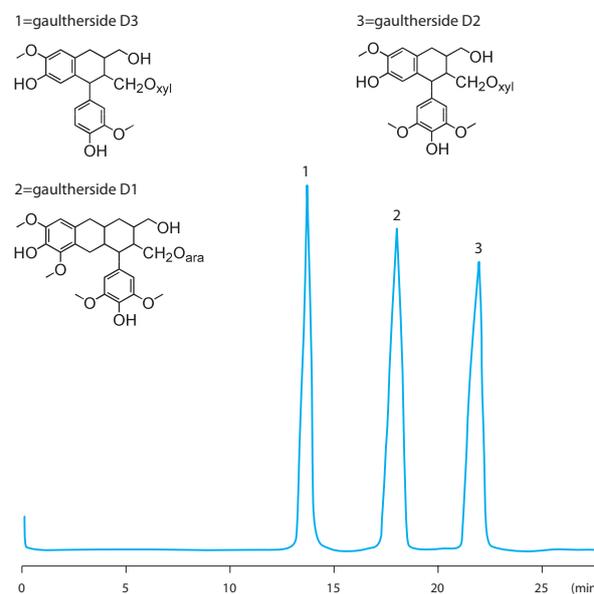
Determination of actarit and related compounds. (ref. 274)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: MeOH:water (70:30; v:v) + 1% tetrabutylammonium bromide
 Flow rate: 1 ml/min.
 Detection: UV 245 nm

Gaultherisides

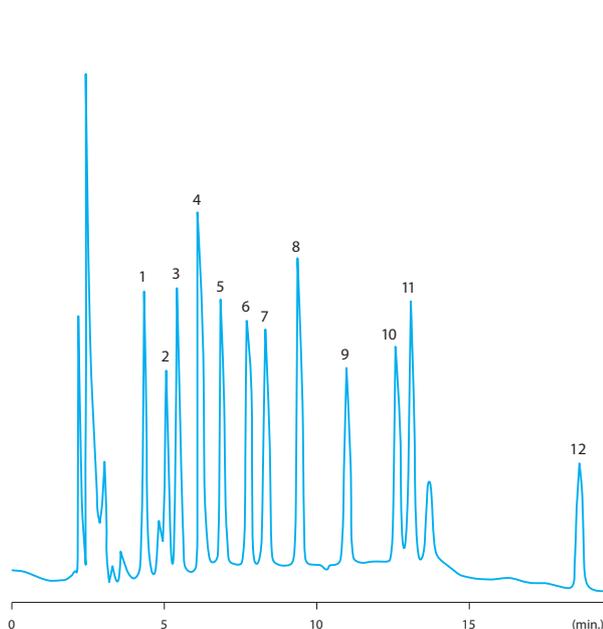
Determination of Gaultherisides in Yunnan wintergreen. (ref. 307)



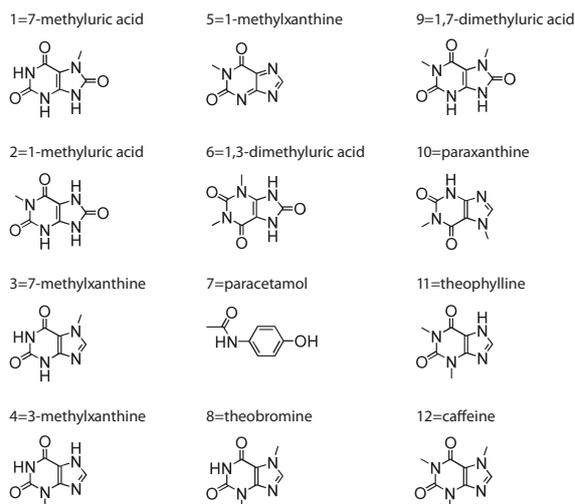
Phase: Kromasil 100 Å, 5 µm, C18
 Column: 3.9 x 250 mm
 Temperature: ambient
 Eluent: MeOH:ACN:water (25:5:70; v:v) pH=3.5 (adjusted with H₃PO₄)
 Flow rate: 0.7 ml/min.
 Detection: UV 220 nm

Caffeine and metabolites

Quantitation of caffeine metabolism products. (ref. 271)



Phase: Kromasil 100 Å, 5 µm, C4
 Column: 4 x 250 mm
 Temperature: ambient
 Eluent: acetate buffer (pH 3.5) : MeOH (97:3; v:v)
 Gradient: 0 min. 3% MeOH, 20 min. 20% MeOH
 Flow rate: 1 ml/min.
 Detection: UV 275 nm

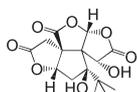


NATURAL PRODUCTS

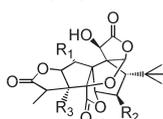
Ginkgolides

Determination of ginkgolides. (ref. 277)

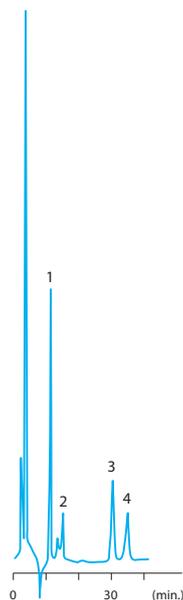
1=bilobalide



2-4=ginkgolide



	R ₁	R ₂	R ₃
2. ginkgolide C	OH	OH	OH
3. ginkgolide A	H	H	OH
4. ginkgolide B	OH	H	OH

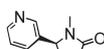


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: water:MeOH (77:33; v:v)
 Flow rate: 1 ml/min.
 Detection: refractive index

Nicotine

Clinical assay of nicotine and its metabolite, cotinine, in body fluids. (ref. 306)

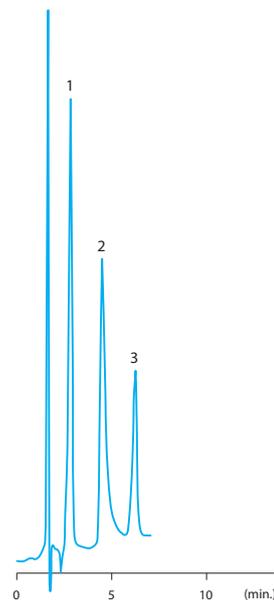
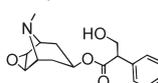
1=cotinine



2=nicotine



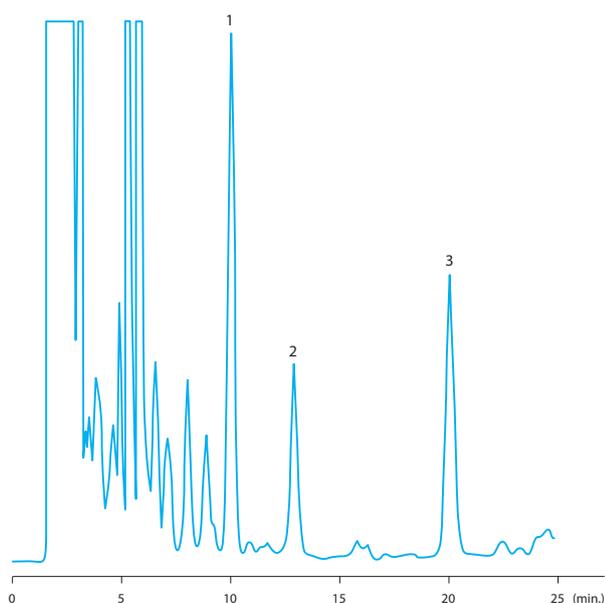
3=scopolamine



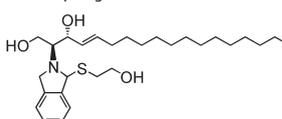
Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4 x 250 mm
 Temperature: ambient, 22°C
 Eluent: ammonium acetate (0.05 M):CH₃OH (60:40; v:v)
 Flow rate: 1.4 ml/min.
 Detection: UV 262 nm

Sphingoids

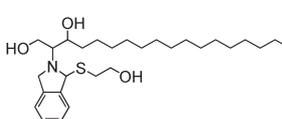
Analysis of sphinganine and sphingosine from urine with precolumn o-phthaldialdehyde (OPA) derivatization. (ref. 87)



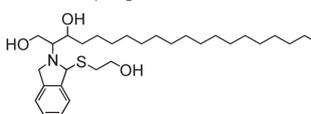
1=OPA-sphingosine



2=OPA-sphinganine



3=OPA-C20-sphinganine



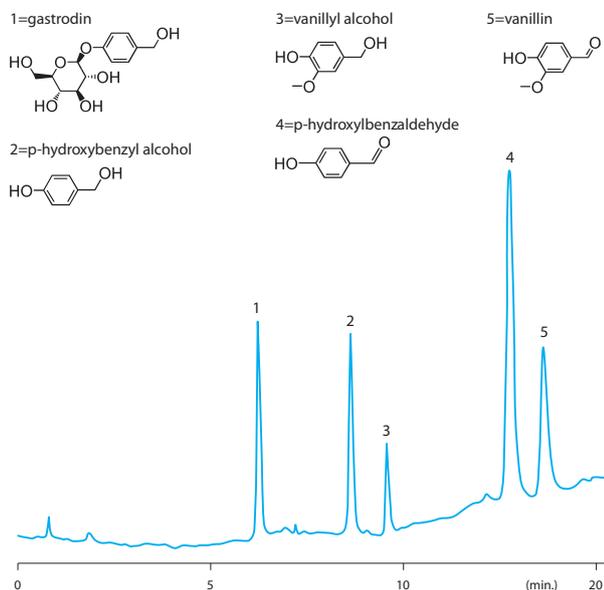
Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 45°C
 Eluent A: 0.07 M K₂HPO₄ in MeOH (1:9; v:v)
 Eluent B: MeOH
 Gradient: 0 min. 0% B, 10 min. 0% B, 30 min. 40% B, 32 min. 100% B, 42 min. 100% B, 44 min. 0% B, 60 min. 0% B

Flow rate: 1.3 ml/min.
 Detection: fluorescence (λ_{ex} 340 nm, λ_{em} 455 nm)

NATURAL PRODUCTS

TCM, Traditional Chinese Medicine

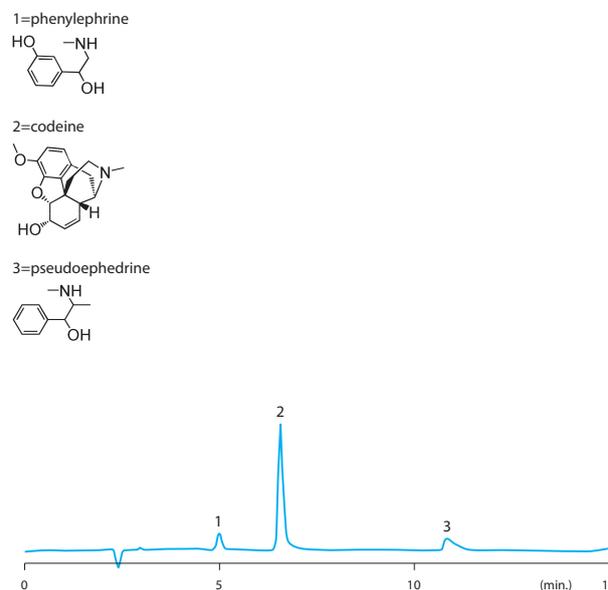
Determination of gastrodin, p-hydroxybenzyl alcohol, vanillyl alcohol, p-hydroxybenzaldehyde and vanillin from TCM. (ref. 297)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 150 mm
 Temperature: ambient
 Eluents: Eluent A: water, eluent B: MeOH
 Gradient: 0 min 5% B, 9 min 44% B, 12 min 65% B, 15 min 65% B
 Flow rate: 1 ml/min.
 Detection: UV 270 nm

TCM, Traditional Chinese Medicine

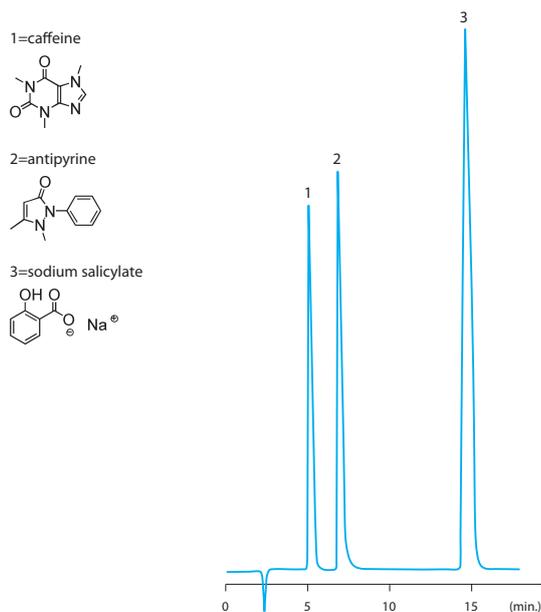
Determination of three components in a Chinese doctor-cough syrup. (ref. 210)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 45°C
 Eluent: MeOH:water:acetic acid (40:60:2; v:v:v) + 5 mM IPR-B₈
 Flow rate: 1 ml/min.
 Detection: UV 245 nm

TCM, Traditional Chinese Medicine

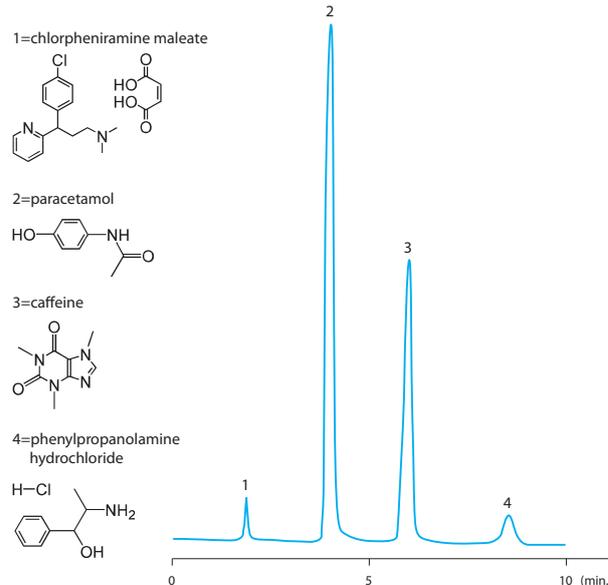
Analysis of caffeine, antipyrine and sodium salicylate in Satongfeng injection. (ref. 215)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: 20 mM potassium dihydrogen phosphate: MeOH:glacial acetic acid (55:25:0.4; v:v:v)
 Flow rate: 1 ml/min.
 Detection: UV 242 nm

TCM, Traditional Chinese Medicine

Determination of four components of Ganmaoling capsules. (ref. 258)



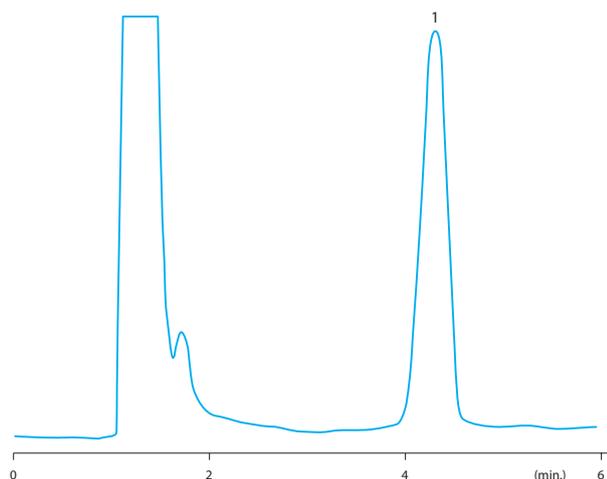
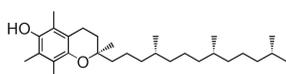
Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 30°C
 Eluent: ACN:diammonium hydrogen phosphate (pH 3.1, 0.03 M) (12:88; v:v) containing 0.75 – 5 mM sodium sulfonic heptane
 Flow rate: 1 ml/min.
 Detection: UV 214 nm

VITAMINS

Vitamin E

Determination of vitamin E in human plasma. (ref. 108)

1=vitamin E

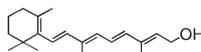


Phase: Kromasil 100 Å, 5 µm, C1
 Column: 4.6 x 100 mm
 Temperature: ambient
 Eluent: MeOH:ACN:water (50:35:15; v:v:v)
 Flow rate: 1.5 ml/min.
 Detection: UV 292 nm

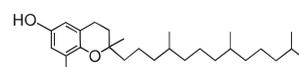
Vitamins

Determination of tocopherols and vitamin A in vegetable oils. (ref. 188)

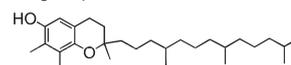
1=vitamin A (retinol)



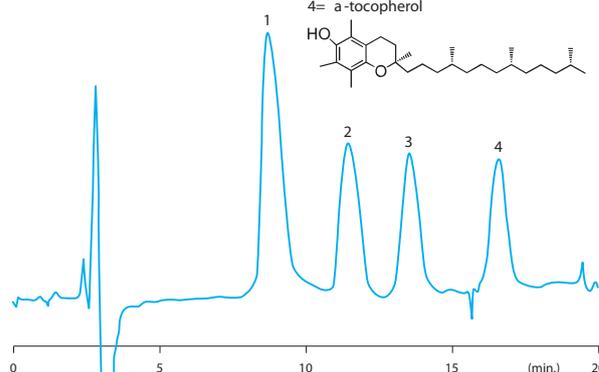
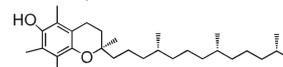
2= d-tocopherol



3= g-tocopherol



4= a-tocopherol

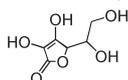


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 0.2 x 800 mm
 Temperature: 65°C
 Eluent: CO₂ with 8% MeOH
 Pressure: 180 atm
 Detection: electrochemical (potential +1.80 V versus Quasi-Reference Electrode)

Vitamins

Analysis of soluble vitamins. (ref. 330)

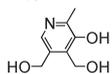
1=ascorbic acid (vitamin C)



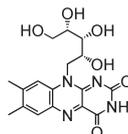
2=nicotinamide (vitamin B₃)



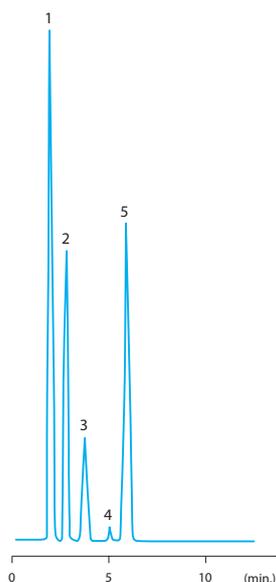
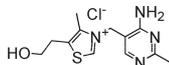
3=pyridoxine (vitamin B₆)



4=riboflavine (vitamin B₂)



5=thiamine chloride (vitamin B₁)

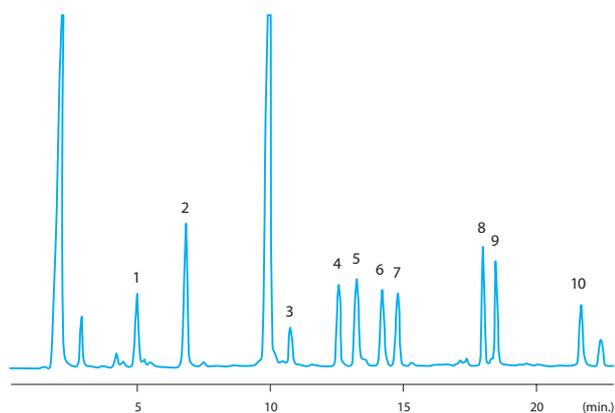


Phase: Kromasil 100 Å, 10 µm, NH2
 Column: 4.6 x 250 mm
 Eluent: 0.68 g sodium 1-hexanesulfonic acid + 0.8 g phosphoric acid + 720 ml water (pH 2.3) + 80 ml ACN + 200 ml MeOH
 Flow rate: 1 ml/min.
 Detection: UV 210 nm

OTHER

Amines

Determination of amines from fish decomposition by dansylchloride derivatisation. (ref. 73)



1= $\text{NH}_3^+ \text{R}$

2=methylamine
CNHR

3=tryptamine
Cc1c[nH]c2ccccc12NHR

4=1,3-diaminopropane
NCCNHR

5=putrescine
NCCCNHR

6=cadaverine
NCCCCNHR

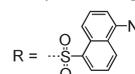
7=histamine
C1=CN=C[C@H]1NHR

8=tyramine
Oc1ccc(cc1)CNHR

9=spermidine
RHNCCCCNCCCCNHR

10=spermine
RHNCCCCNCCCCNCCCCNHR

dansyl derivative group



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 25°C
 Eluent: ACN:water
 Gradient: 0 min 60% ACN, 6 min 75% ACN, 8 min 75% ACN, 13 min 95% ACN, 20 min 95% ACN, 20.01 min 60% ACN

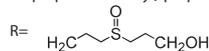
Flow rate: 1 ml/min.
 Detection: UV 254 nm

Amino alcohols

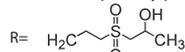
Separation of derivatives of 1-ethylamino-3-phenoxy-propan-2-ol. (ref. 38)



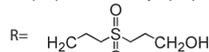
1=3-[3-[Ethyl-(2-hydroxy-3-phenoxy-propyl)-amino]-propane-1-sulfonyl]-propan-1-ol



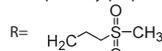
2=1-[Ethyl-[3-(2-hydroxy-propane-1-sulfonyl)-propyl]-amino]-3-phenoxy-propan-2-ol



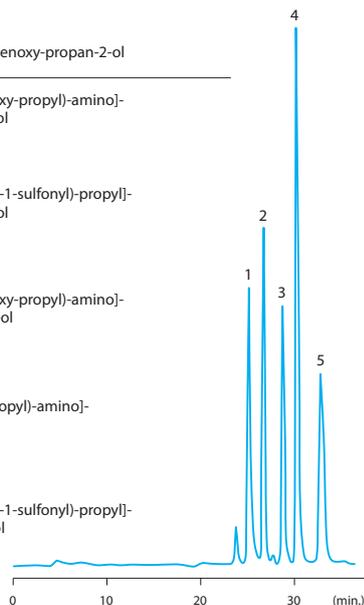
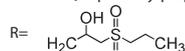
3=3-[3-[Ethyl-(2-hydroxy-3-phenoxy-propyl)-amino]-propane-1-sulfonyl]-propan-1-ol



4=1-[Ethyl-(3-methanesulfonyl-propyl)-amino]-3-phenoxy-propan-2-ol



5=1-[Ethyl-[2-hydroxy-3-(propane-1-sulfonyl)-propyl]-amino]-3-phenoxy-propan-2-ol



Phase: Kromasil 100 Å, 5 µm, C8
 Column: 0.2 x 900 mm
 Eluent: ACN:ammonium acetate (5 mM) (55:45; v:v)
 Flow rate: 0.95 µl/min.
 Detection: ESI-MS

Aroma extracts in alcoholic beverages

Separation of aroma extracts found in wine and other alcoholic beverages. (ref. 209)

1=furfural
C1=CC=C(C=C1)C=O



2=sotolon
CC1=C(C)C(=O)O1



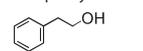
3=vanillin
CC1=CC=C(C=C1)C(=O)O



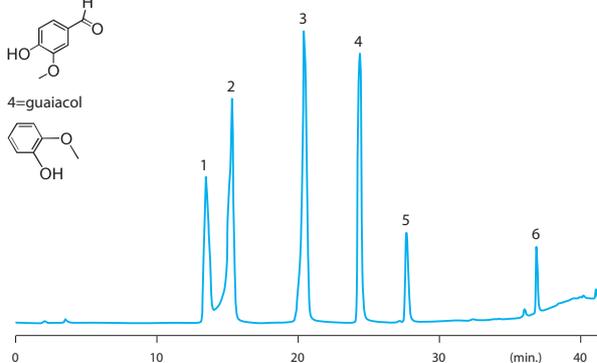
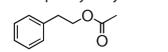
4=guaiacol
CC1=CC=C(C=C1)O



5=2-phenylethanol
CC1=CC=C(C=C1)CO



6=2-phenylethyl acetate
CC(=O)OCC1=CC=C(C=C1)

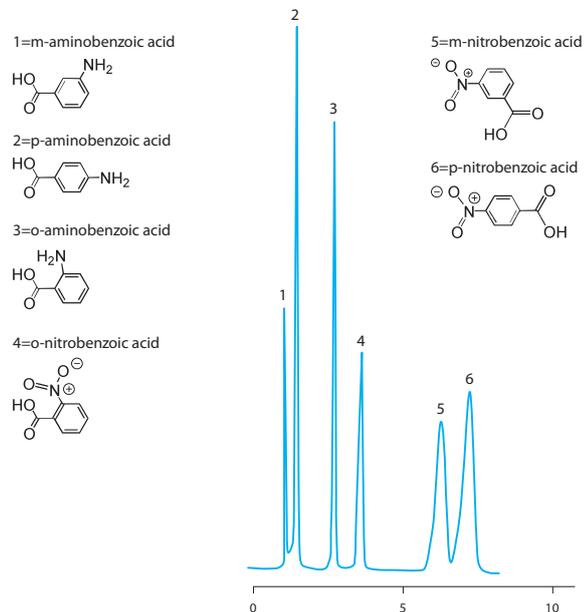


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 10 x 250 mm
 Eluent: water:ethanol
 Gradient: 0 min. 100% water, 8 min. 80% water, 28 min. 50% water, 40 min. 0% water
 Flow rate: 2 ml/min.
 Detection: UV 220 nm

OTHER

Aromatics

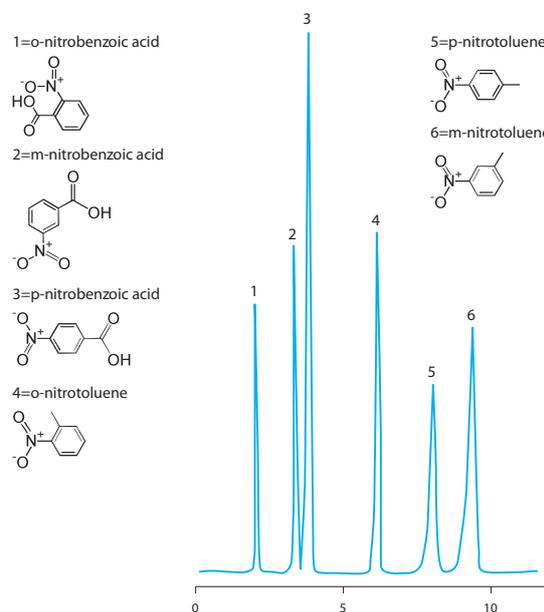
Separation of mixtures of nitrobenzoic acid and aminobenzoic acid isomers. (ref. 214)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 200 mm
 Temperature: 35°C
 Eluent: MeOH:water:THF (55:44:1; v:v:v) with b-cyclodextrin at pH 3.0
 Flow rate: 0 – 4 min. 2 ml/min., 4 – 10 min. 2.6 ml/min.
 Detection: UV 254 nm

Aromatics

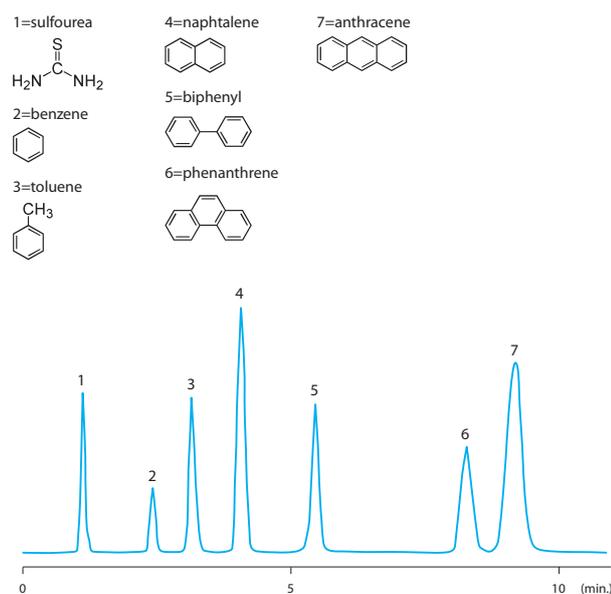
HPLC analysis of isomers of nitrotoluene and nitrobenzoic acid. (ref. 213)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 200 mm
 Temperature: 35°C
 Eluent: MeOH:water:THF (55:44:1; v:v:v) with b-cyclodextrin at pH 3.0
 Flow rate: 0 – 4 min. 2 ml/min., 4 – 10 min. 2.6 ml/min.
 Detection: UV 254 nm

Aromatics

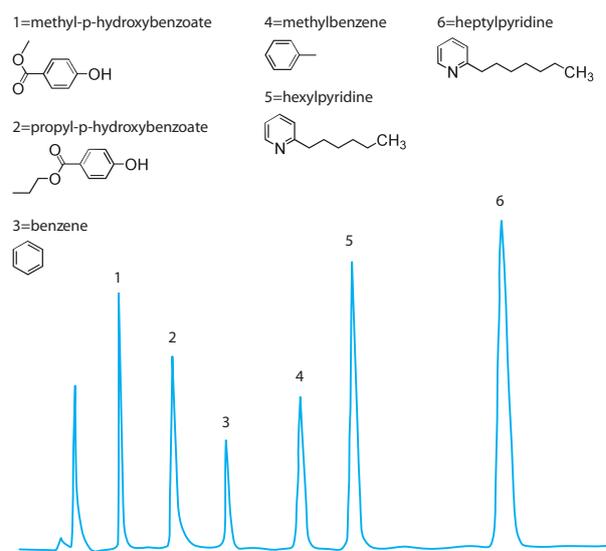
Determination of sulfourea, benzene, toluene, naphtalene, biphenyl, phenanthrene, anthracene. (ref. 301a)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 0.8 x 150 mm
 Eluent: MeOH:water (80:20; v:v)
 Flow rate: 38 µl/min.
 Detection: UV 254 nm

Aromatics

Separation of benzene and pyridine derivatives. (ref. 40)

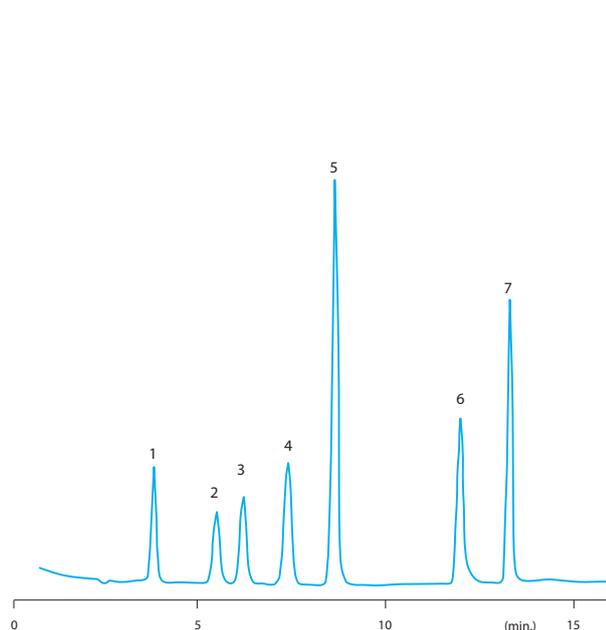


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 150 mm
 Eluent: ACN:water (56.9:43.1; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 254 nm

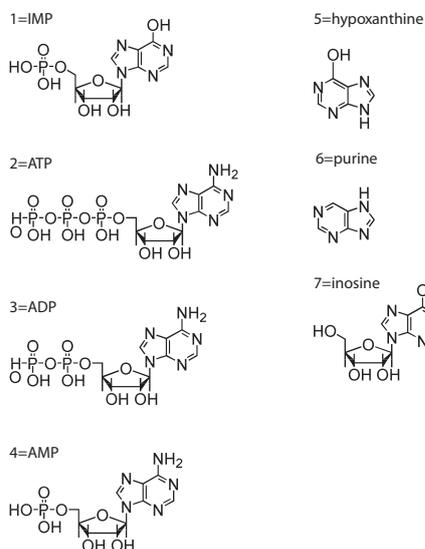
OTHER

ATP degradation products

Determination of ATP degradation products from fish decomposition. (ref. 159)



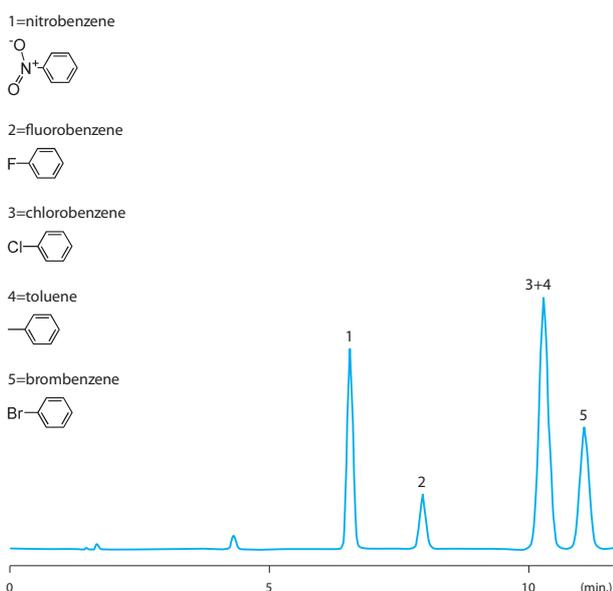
Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: 25°C
 Eluents: Eluent A, ACN and eluent B, phosphate buffer (pH 7.00, 60 mM K₂HPO₄ + 40 mM KH₂PO₄)



Gradient: 0 min. 100% B, 4 min. 98% B, 5 min. 97% B, 8 min. 96% B, 15 min. 96% B, 15.01 min. 100% B
 Flow rate: 1 ml/min.
 Detection: UV 254 nm

Benzene, substituted

Separation of substituted benzene. (ref. 1)



Phase: Kromasil 100 Å, 5 µm, C8
 Column: 4.6 x 250 mm
 Temperature: 20°C
 Eluent: ACN:water (60:40; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 210 nm

1=nitrobenzene



2=fluorobenzene



3=chlorobenzene



4=toluene

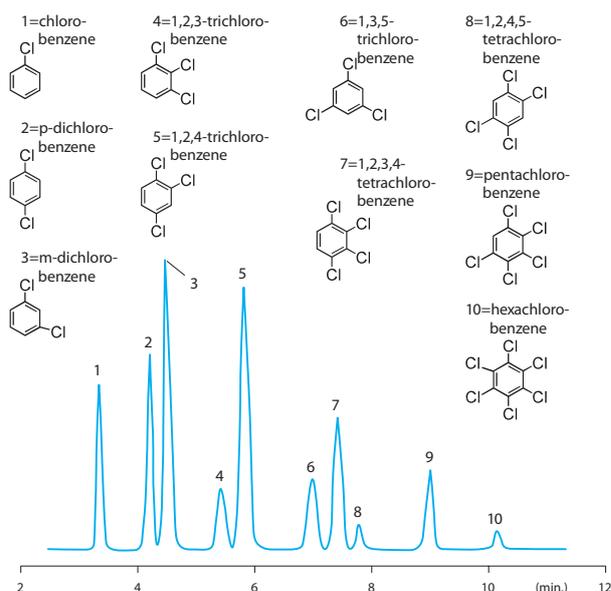


5=bromobenzene



Chlorinated benzenes

Determination of chlorobenzene and derivatives. (ref. 301c)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 0.8 x 150 mm
 Eluent: eluent A: ACN, eluent B: water
 Gradient: 0 min. 80% A, 5 min. 80% A, 10 min. 100% A
 Flow rate: 32 µl/min.
 Detection: UV 220 nm

1=chloro-benzene



2=p-dichloro-benzene



3=m-dichloro-benzene



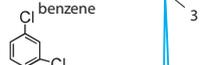
4=1,2,3-trichloro-benzene



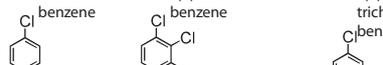
5=1,2,4-trichloro-benzene



6=1,3,5-trichloro-benzene



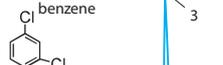
7=1,2,3,4-tetrachloro-benzene



8=1,2,4,5-tetrachloro-benzene



9=pentachloro-benzene



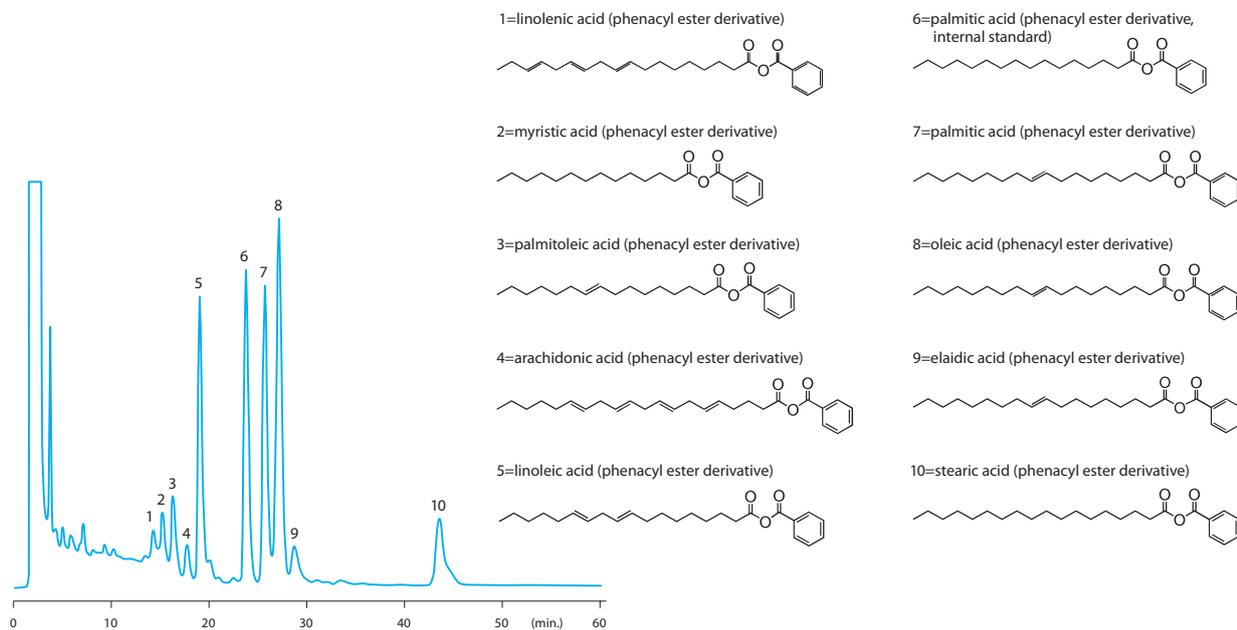
10=hexachloro-benzene



OTHER

Fatty acids

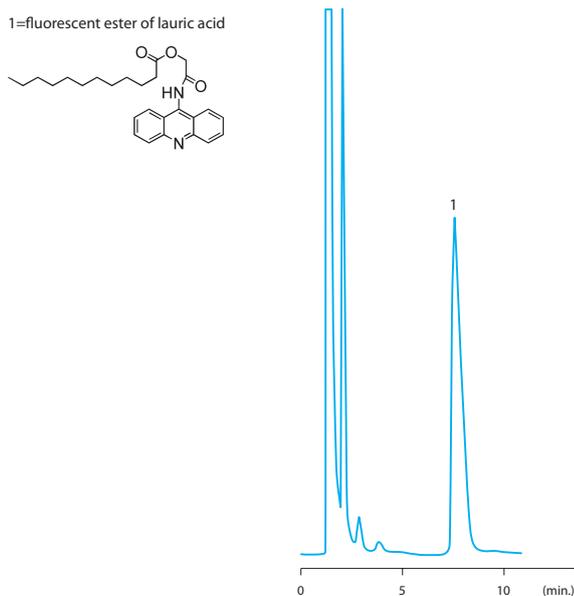
Analysis of plasma fatty acids as their phenacyl esters. (ref. 193)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Temperature: ambient
 Eluent: MeOH:water (91:9; v:v)
 Flow rate: 1.15 ml/min.
 Detection: UV 254 nm

Lauric acid

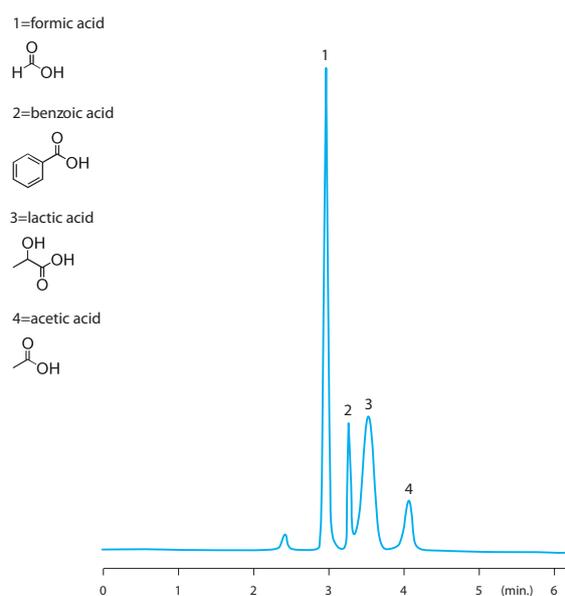
Detection of ester of lauric acid. (ref. 35)



Phase: Kromasil 100 Å, 7 µm, C18
 Column: 4.6 x 150 mm
 Eluent: ACN:MeOH:water (55:10:35; v:v:v)
 0.2% phosphoric acid added
 Flow rate: 1 ml/min.
 Detection: fluorescence (λ_{ex} 357.5 nm and λ_{em} 482 nm)

Organic acids

Separation of formic acid, benzoic acid, lactic acid, acetic acid. (ref. 344)

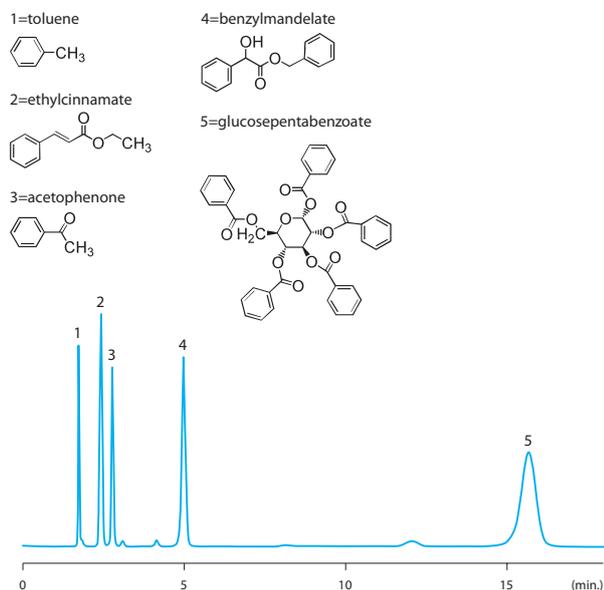


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4.6 x 250 mm
 Eluent: KH₂PO₄-buffer (10 mM, pH 2.5):ACN (95:5; v:v)
 Flow rate: 38 µl/min.
 Detection: UV 254 nm

OTHER

QC test, neutral compounds

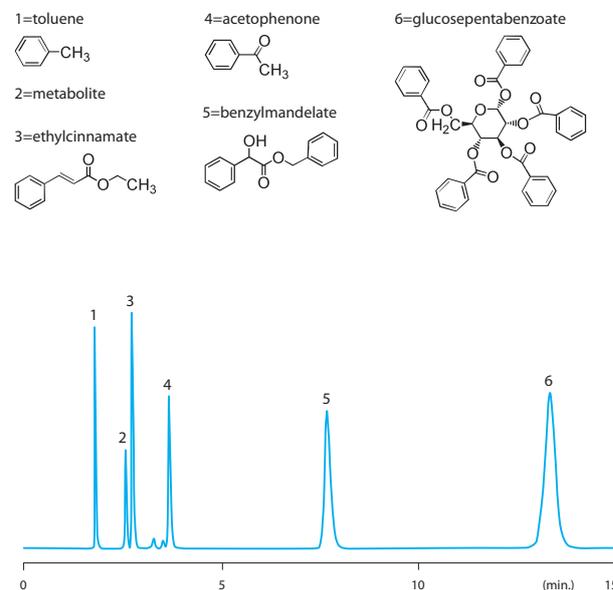
QC test of Kromasil CN. (ref. 341)



Phase: Kromasil 60 Å, 10 µm, CN
 Column: 4.6 x 250 mm
 Eluent: hexane:ethylacetate (90:10; v:v)
 Flow rate: 2 ml/min.
 Detection: UV 254 nm

QC test, neutral compounds

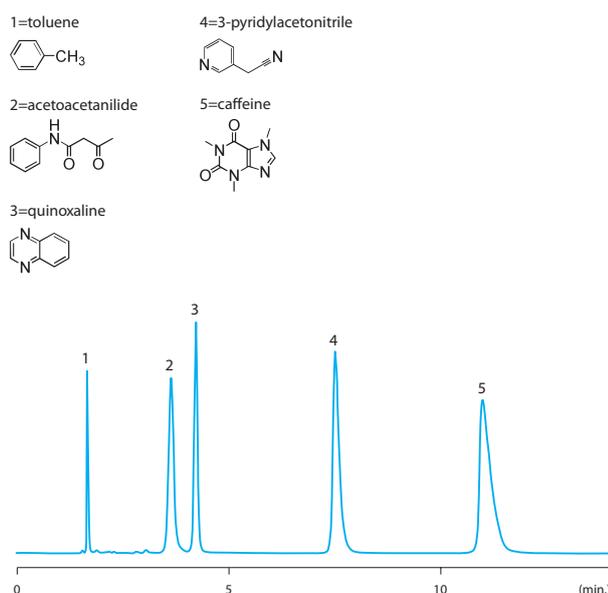
QC test of Kromasil SIL. (ref. 346)



Phase: Kromasil 60 Å, 5 µm, SIL
 Column: 4.6 x 250 mm
 Eluent: hexane:ethylacetate (85:15; v:v)
 Flow rate: 2 ml/min.
 Detection: UV 254 nm

QC test, silanophilic compounds

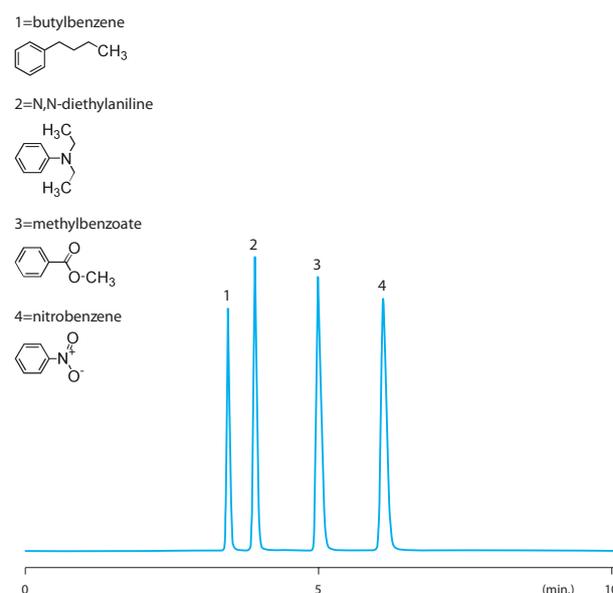
QC test of Kromasil SIL. (ref. 345)



Phase: Kromasil 60 Å, 5 µm, SIL
 Column: 4.6 x 250 mm
 Eluent: MeCl₂:MeOH (98:2; v:v)
 Flow rate: 2 ml/min.
 Detection: UV 254 nm

QC test, substituted aromatic compounds

QC test of Kromasil NH2. (ref. 343)

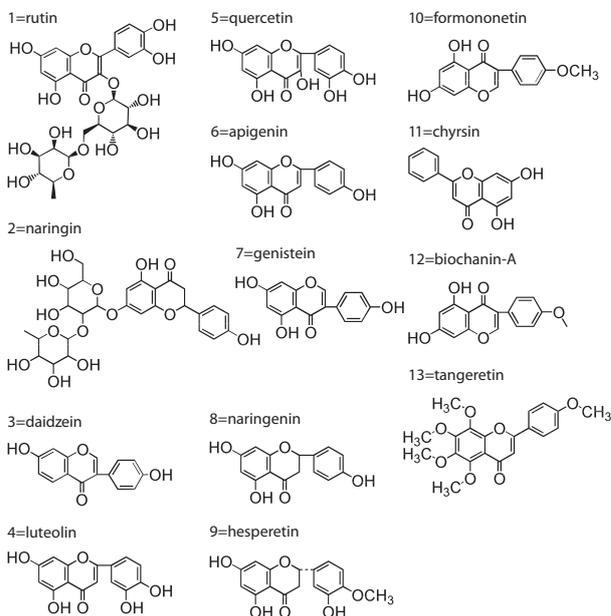
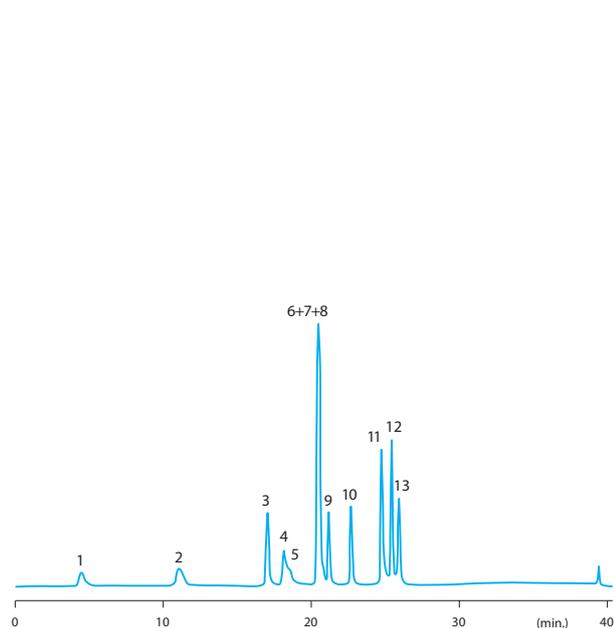


Phase: Kromasil 100 Å, 5 µm, NH2
 Column: 4.6 x 250 mm
 Eluent: hexane:MeCl₂ (97:3; v:v)
 Flow rate: 1 ml/min.
 Detection: UV 254 nm

OTHER

Flavonoid glycosides

Analysis of flavonoid glycosides. (ref. 100)

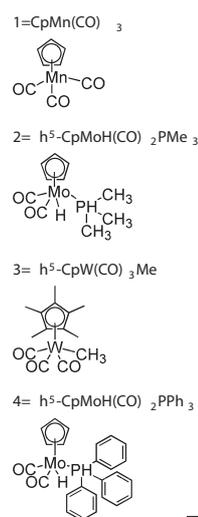
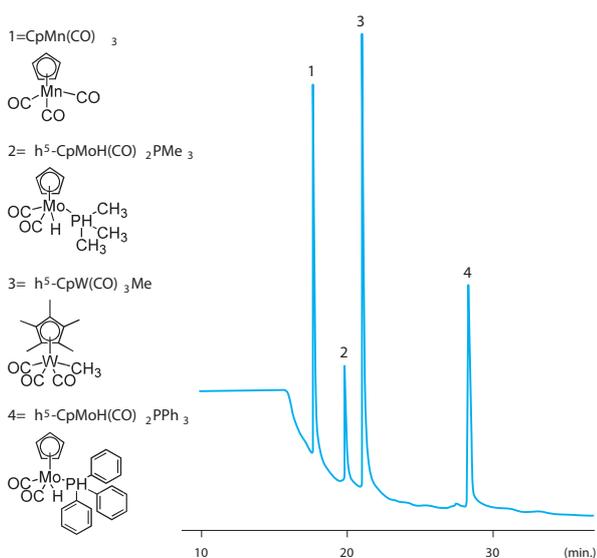


Phase: Kromasil 100 Å, 5 µm, C18
 Column: 3.2 x 250 mm
 Eluent: ACN:water
 Gradient: 0 min. 20% ACN, 10 min. 20% ACN, 18 min. 40% ACN, 28 min. 75% ACN, 30 min. 100% ACN, 37 min. 100% ACN

Flow rate: 0.75 ml/min.
 Detection: UV 280 nm

Organometallic catalysts

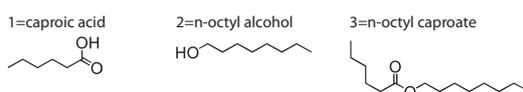
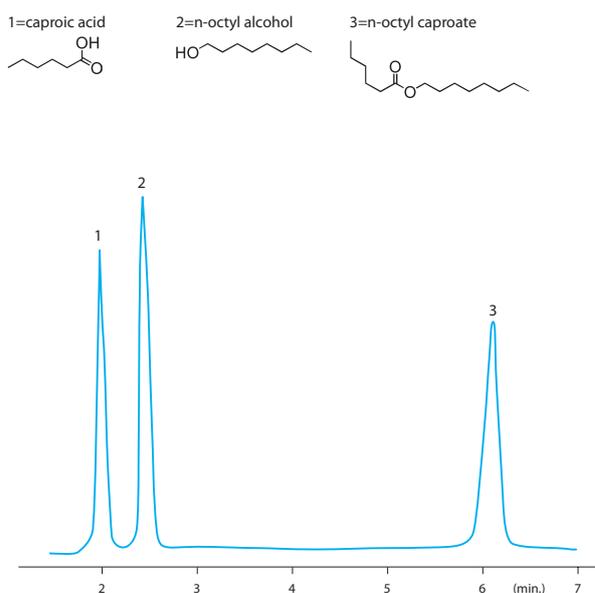
Purity testing of organometallic catalysts. (ref. 248)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 0.32 x 450 mm
 Temperature: 60°C
 Eluent: carbon dioxide
 Flow rate: 7.2 µl/min.
 Pressure: 100 bar (hold 10 min.) then 10 bar/min. until 180 bar (hold 1 min.), then 10 bar/min. until 300 bar (hold 1 min.), then 10 bar/min. until 400 bar (hold 10 min.)
 Detection: FID

Surfactants

Determination of caproic acid, n-octyl alcohol and n-octyl caproate. (ref. 285)

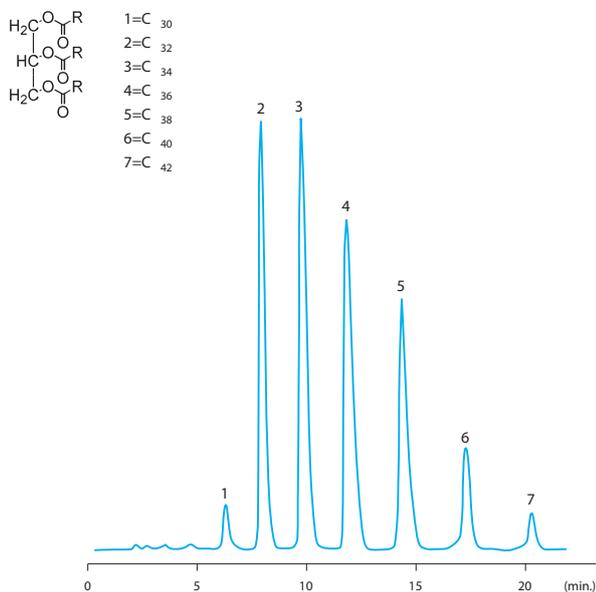


Phase: Kromasil 100 Å, 5 µm, C18
 Temperature: 30°C
 Column: 4.6 x 150 mm
 Eluent: MeOH:water (95:5; v:v)
 Flow rate: 1 ml/min.
 Detection: refractive index

OTHER

Triacylglycerols

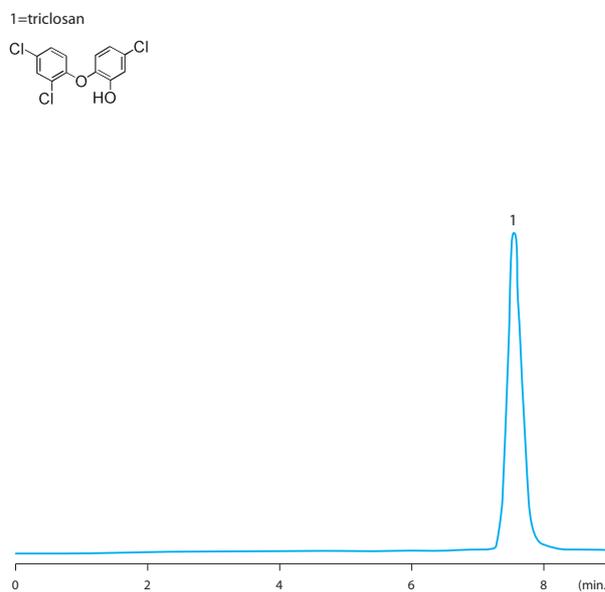
Analysis of seven triacylglycerols. (ref. 139)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 0.7 x 120 mm
 Eluent: (A):ACN, (B):acetone
 Gradient: stepwise: 0 – 5 min. 90% A, 5 – 25 min. 70% A, after 25 min. 40% A.
 Flow rate: 5 – 100 µl/min (not specified)
 Detection: ELS

Triclosan

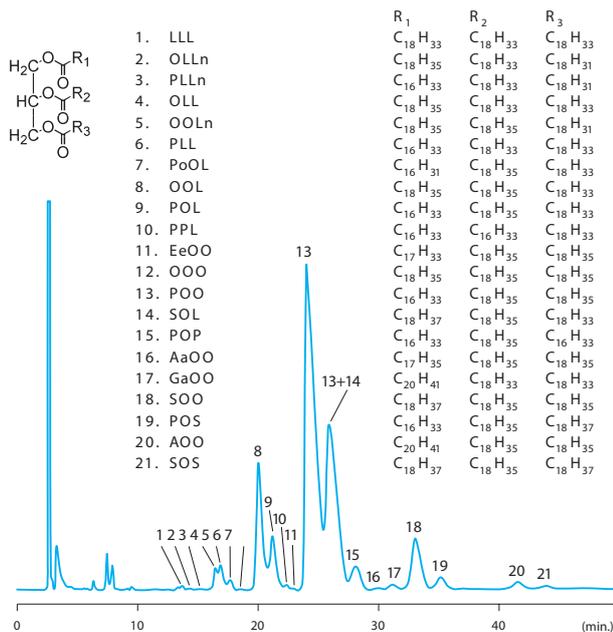
Determination and stability tests of triclosan in disinfectants. (ref. 8)



Phase: Kromasil 100 Å, 7 µm, C18
 Column: 4.6 x 200 mm
 Eluent: MeOH:ACN:water (40:40:20; v:v:v) containing 0.02 M KH₂PO₄ (pH 2.7)
 Flow rate: 1 ml/min.
 Detection: UV 280 nm

Triglycerides

Analysis of triglyceride profiles in Cretan olive oils. (ref. 96)



Phase: Kromasil 100 Å, 5 µm, C18
 Column: 4 x 250 mm
 Temperature: 40°C
 Eluent: acetone:ACN (60:40; v:v)
 Flow rate: 0.7 ml/min.
 Detection: refractive index