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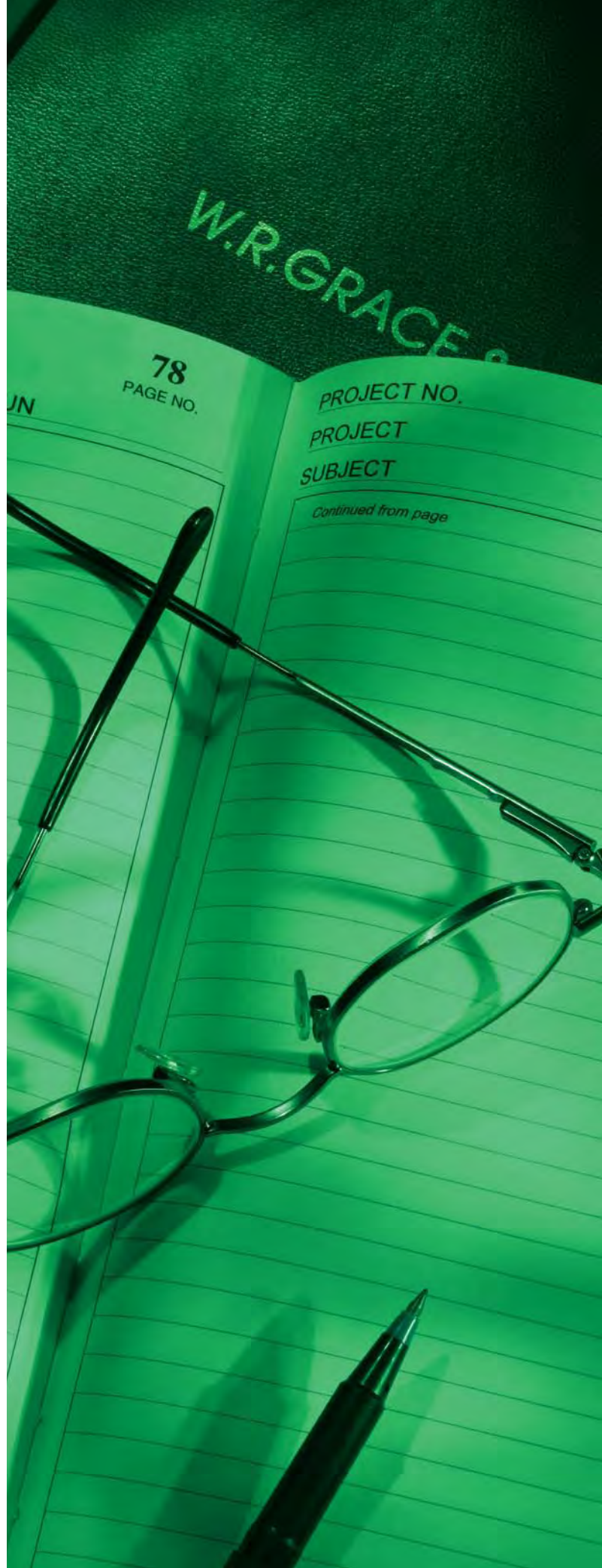
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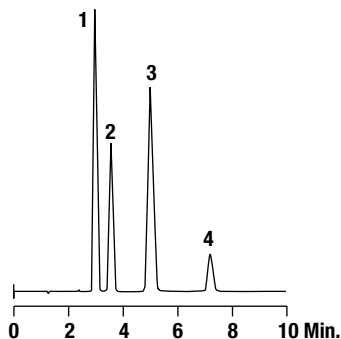
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Analgesics

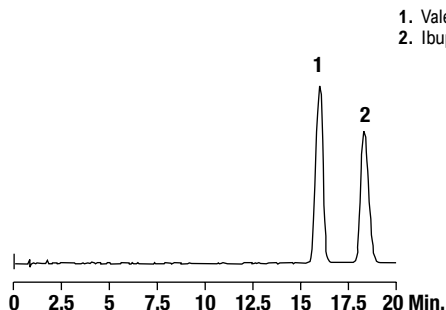
Anti-Inflammatories

CHROM
8156

1. Naproxen
2. Acemetacin
3. Indomethacin
4. p-Xylene

Column: Alltech® Platinum™ C18, 5µm, 150 x 4.6mm (Part No. 32043)
Mobile Phase: 0.02M KH₂PO₄:Methanol:Acetonitrile: pH4.5 (40:50:10)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

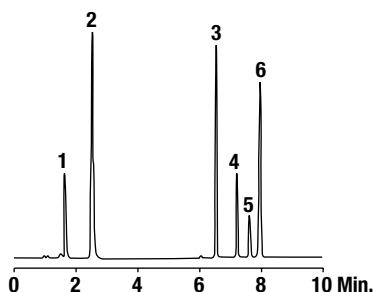
Ibuprofen (U.S.P.)

CHROM
10702

1. Valerophenone
2. Ibuprofen

Column: GraceSmart™ C18, 5µm, 150 x 4.6mm (Part No. 5138812)
Mobile Phase: Phosphoric Acid in Water, pH2.5:Acetonitrile (65:35)
Flow Rate: 2mL/min
Detector: UV at 214nm
Injection Vol: 5µL

Analgesics

CHROM
10124

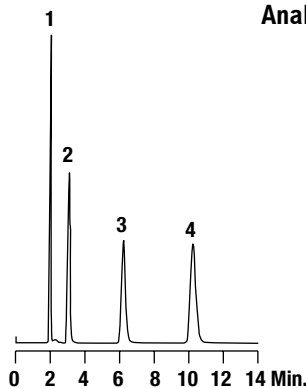
1. Aspirin
2. Acetaminophen
3. Naproxen
4. Fenoprofen
5. Ibuprofen
6. Diclofenac

Column: Alltech® Alltima™ C8, 5µm, 150 x 4.6mm (Part No. 88072)
Mobile Phase: A: 0.05M K₂HPO₄, pH3.3 B: Methanol C: Acetonitrile
Gradient:

Time:	0	2	5
%B:	10	10	30
%C:	10	10	25

Flow Rate: 2.0mL/min
Detector: UV at 280nm

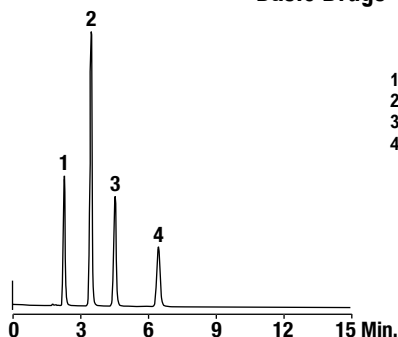
Analgesics

CHROM
9385

1. Aspirin
2. Acetaminophen
3. Naproxen
4. Fenoprofen

Column: Alltech® Prevail™ Amide, 5µm, 150 x 4.6mm (Part No. 88660)
Mobile Phase: 0.02M K₂HPO₄, pH7.0:Acetonitrile (75:25)
Flow Rate: 1.0mL/min
Detector: UV at 210nm

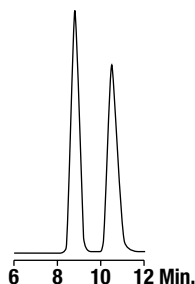
Basic Drugs

CHROM
10374

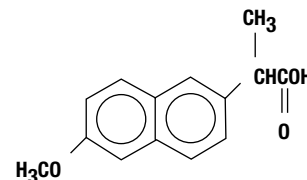
1. Procainamide
2. Acetaminophen
3. Theophylline
4. Caffeine

Column: Alltech® Alltima™ HP C8, 5µm, 150 x 4.6mm (Part No. 87751)
Mobile Phase: 0.05M Phosphate Buffer pH3.0:Methanol (80:20)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Naproxen Enantiomers

CHROM
8769

Column: Astec™ Chirobiotic® V™, 250 x 4.6mm (Part No. 11024)
Mobile Phase: 0.1% Triethylammonium Acetate (TEAA), pH7.0: Tetrahydrofuran (90:10)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

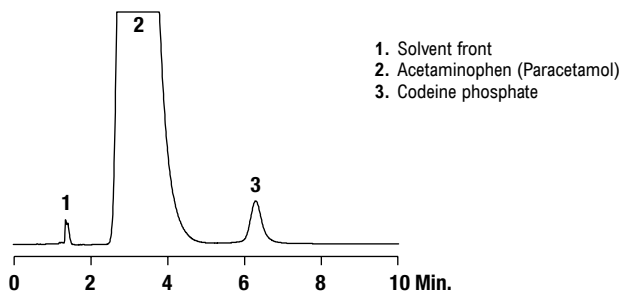


more applications

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Analgesics

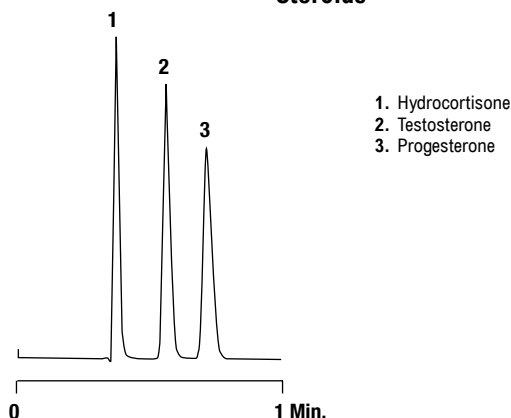
Analgesics



Column: Jones Genesis® C18, 4µm, 100 x 4.6mm (Part No. FM10960E)
Mobile Phase: Acetonitrile:25mM KH₂PO₄, pH3.0 (10:90)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Steroids

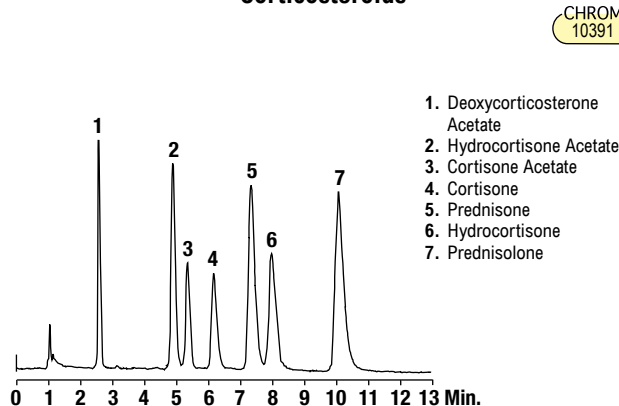
Steroids



Column: Alltech® Prevail™ C18, 3µm, 53 x 7mm Rocket™ (Part No. 99279)
Mobile Phase: Water:Methanol (10:90)
Flow Rate: 4.5mL/min
Detector: UV at 254

CHROM
9392

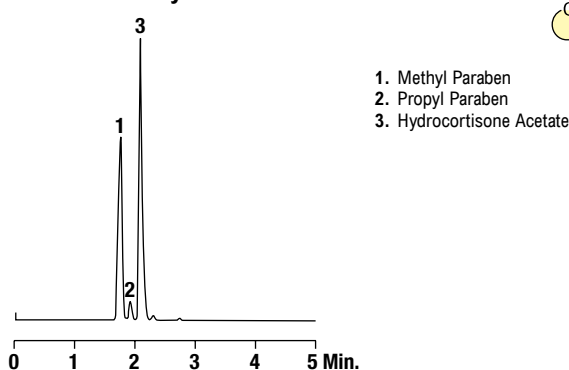
Corticosteroids



Column: Alltech® Alltima™ HP CN, 5µm, 150 x 4.6mm (Part No. 87769)
Mobile Phase: Hexane:Isopropanol (93.7:6.3)
Flow Rate: 2.0mL/min
Detector: UV at 254nm

CHROM
10391

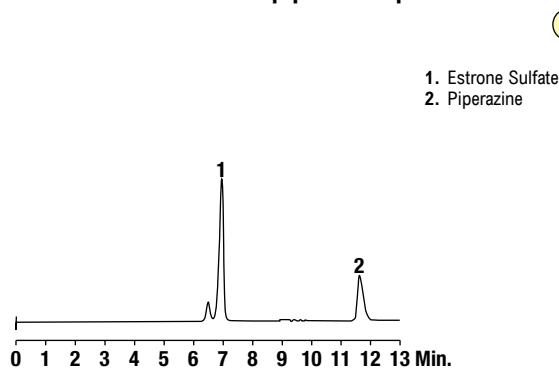
Hydrocortisone Acetate Cream



Column: Alltech® Prevail™ C18, 5µm, 150 x 4.6mm (Part No. 99208)
Mobile Phase: Water:Acetonitrile (10:90)
Flow Rate: 1.0mL/min
Detector: UV at 254

CHROM
9463

Estropiate Sample

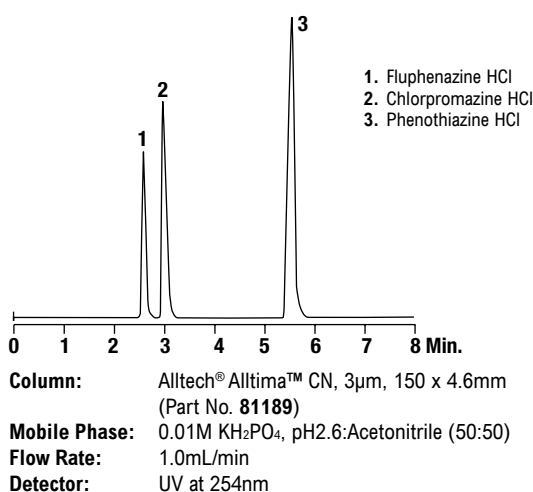


Column: Alltech® Alltima™ CN, 5µm, 250 x 4.6mm (Part No. 88189)
Mobile Phase: 0.15% Nitric Acid:Acetonitrile (5:95)
Flow Rate: 0.5mL/min
Detector: ELSD

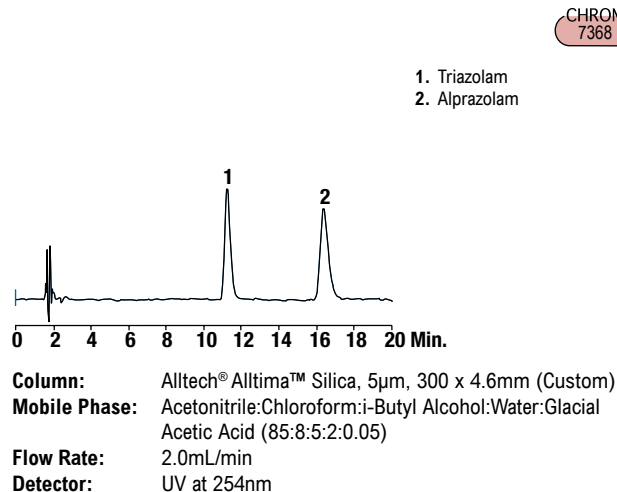
CHROM
10423

Antidepressants

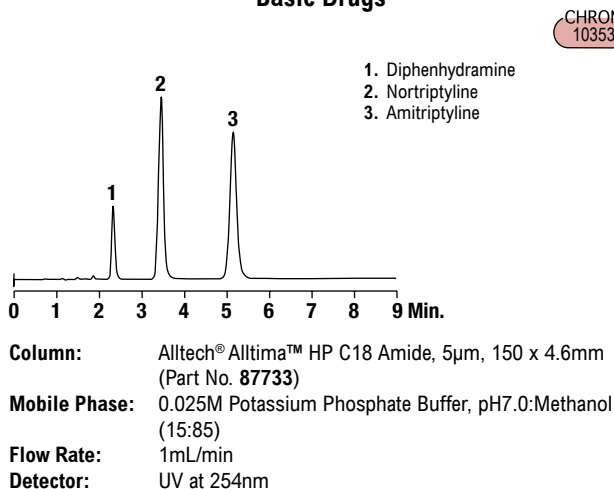
Tricyclic Amines



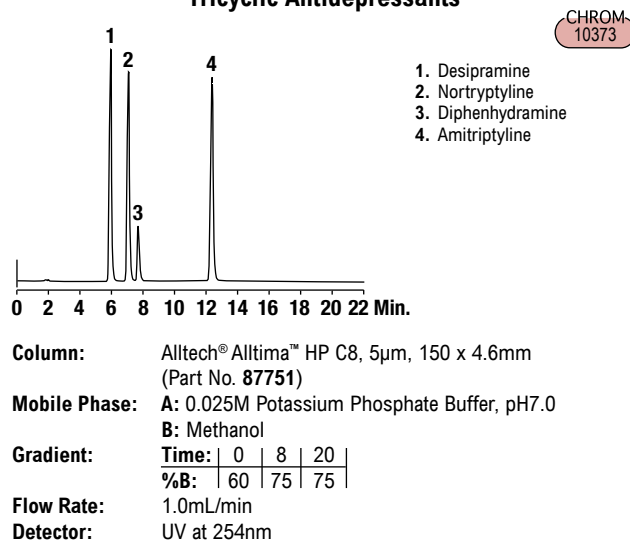
Alprazolam and Triazolam by the USP XXII Method



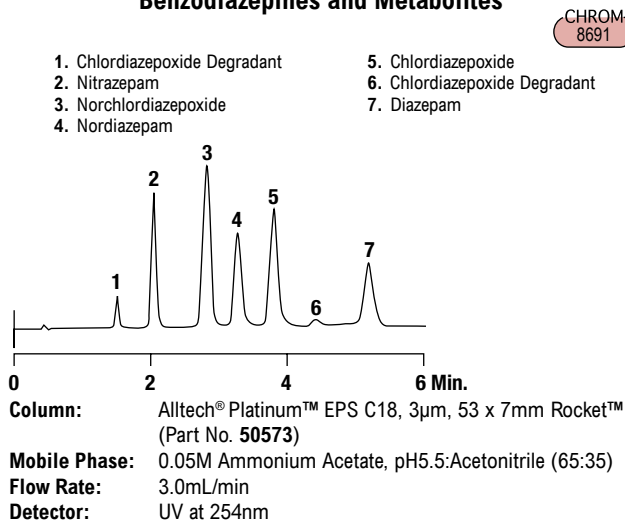
Basic Drugs



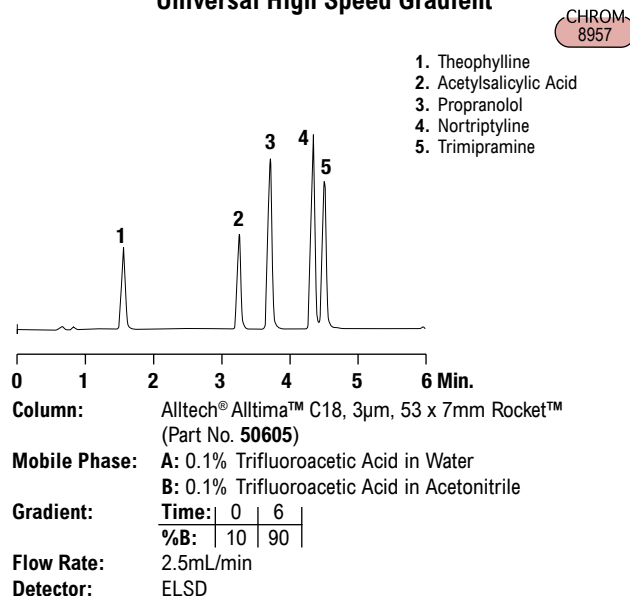
Tricyclic Antidepressants



Benzodiazepines and Metabolites



Universal High Speed Gradient



Antidepressants

Propanolol

CHROM
10719

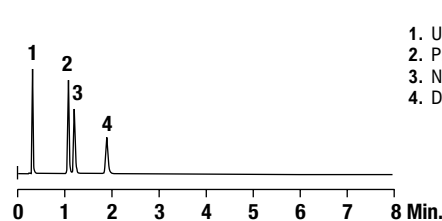


1. Uracil
2. Propanolol
3. Naphthalene
4. Dipropylphthalate

Column: Grace® VisionHT™ C18, 1.5µm, 50 x 2.0mm
(Part No. 5139605)
Mobile Phase: 20mM Potassium Phosphate, pH2.5:Methanol (40:60)
Flow Rate: 0.5mL/min
Detector: UV at 280nm
Temperature: Ambient

Propanolol

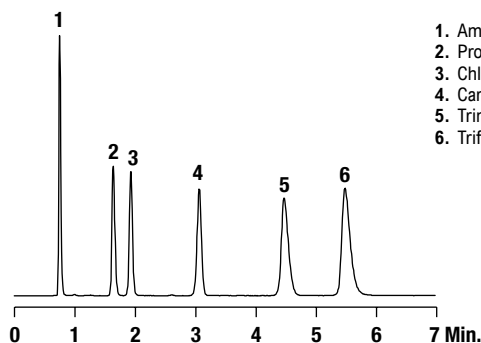
CHROM
10720



1. Uracil
2. Propanolol
3. Naphthalene
4. Dipropylphthalate

Column: Grace® VisionHT™ C18-P, 1.5µm, 50 x 2.0mm
(Part No. 5139606)
Mobile Phase: 20mM Potassium Phosphate, pH2.5:Methanol (40:60)
Flow Rate: 0.5mL/min
Detector: UV at 280nm
Temperature: Ambient

Basic Drugs



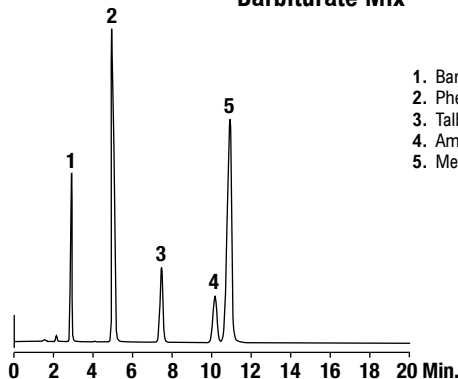
1. Amiloride
2. Propranolol
3. Chloramphenicol
4. Carbamazepine
5. Trimipramine
6. Trifluoperazine

Column: Jones Genesis® C18, 4µm, 150 x 4.6mm
(Part No. FM15960E)
Mobile Phase: Acetonitrile:50mM KH₂PO₄, pH2.4 (35:65)
Flow Rate: 2.0mL/min
Detector: UV at 254nm

Barbiturates

Barbiturate Mix

CHROM
10375

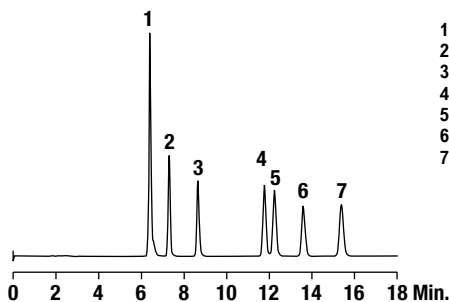


1. Barbitol
2. Phenobarbital
3. Talbutal
4. Amobarbital
5. Mephobarbital

Column: Alltech® Alltima™ HP C8, 5µm, 250 x 4.6mm
(Part No. 87751)
Mobile Phase: 0.05M Ammonium Acetate:Acetonitrile (78:22)
Flow Rate: 1.0mL/min
Detector: UV at 230nm

Barbiturate Mix

CHROM
10604

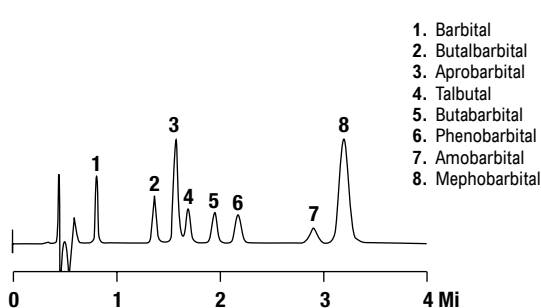


1. Phenobarbital
2. Butabarbital
3. Butalbital
4. Pentobarbital
5. Amobarbital
6. Mephobarbital
7. Secobarbital

Column: Alltech® Alltima™ HP C18 HiLoad, 5µm, 250 x 4.6mm
(Part No. 87698)
Mobile Phase: Water:Acetonitrile (70:30)
Flow Rate: 1.0mL/min
Detector: ELSD

Barbiturate Mix

CHROM
8684

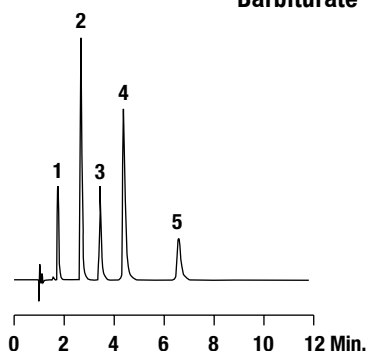


1. Barbitol
2. Butalbital
3. Aprobarbital
4. Talbutal
5. Butabarbital
6. Phenobarbital
7. Amobarbital
8. Mephobarbital

Column: Alltech® Platinum™ EPS C18, 3µm, 53 x 7mm Rocket™
(Part No. 50575)
Mobile Phase: 0.01M Sodium Acetate, pH4.0:Acetonitrile (75:25)
Flow Rate: 3.0mL/min
Detector: UV at 230nm

Barbiturates

Barbiturate Mix

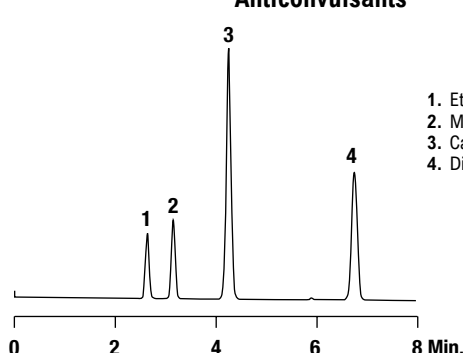
CHROM
10164

1. Primidone
2. Metharbital
3. Mephentyoin
4. Phenobarbital
5. Phenytoin

Column: ZirChrom® DiamondBond™-C18, 3µm, 100 x 4.6mm
(Part No. DB01-1046)
Mobile Phase: 0.05M Ammonium Phosphate, pH7.0:Tetrahydrofuran
(75:25)
Flow Rate: 1.0mL/min
Detector: UV at 220

Anticonvulsants

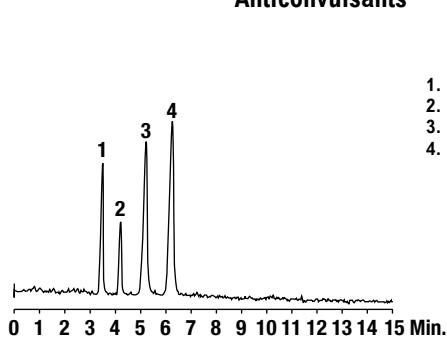
Anticonvulsants

CHROM
9394

1. Ethotoin
2. Mephentyoin
3. Carbamazepine
4. Diazepam

Column: Alltech® Prevail™ Phenyl, 5µm, 150 x 4.6mm
(Part No. 99239)
Mobile Phase: A: Water B: Acetonitrile
Gradient: Time: 0 | 15
%B: 25 | 60
Flow Rate: 1.5mL/min
Detector: UV at 254

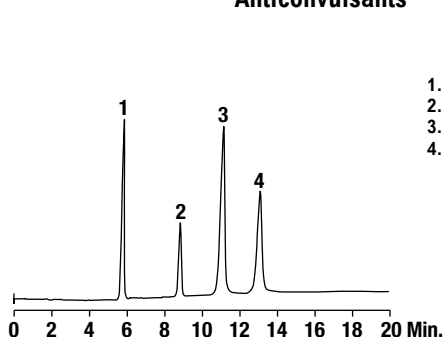
Anticonvulsants

CHROM
10348

1. Ethotoin
2. Phenytoin
3. Mephentyoin
4. Carbamazepine

Column: Alltech® Alltima™ HP EPS C18, 5µm, 150 x 4.6mm
(Part No. 87715)
Mobile Phase: 0.025M Ammonium Acetate:Acetonitrile (70:30)
Flow Rate: 1.0mL/min
Detector: ELSD

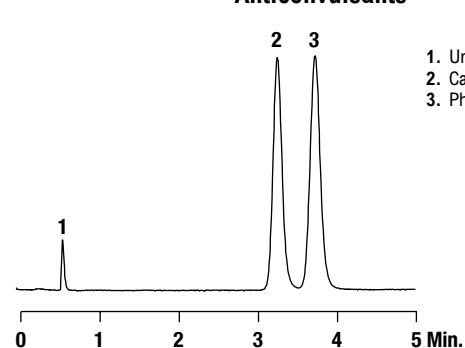
Anticonvulsants

CHROM
10349

1. Ethotoin
2. Phenytoin
3. Mephentyoin
4. Carbamazepine

Column: Alltech® Alltima™ HP C18 HiLoad, 5µm, 150 x 4.6mm
(Part No. 87697)
Mobile Phase: 0.025M Ammonium Acetate:Acetonitrile (70:30)
Flow Rate: 1.0mL/min
Detector: ELSD

Anticonvulsants

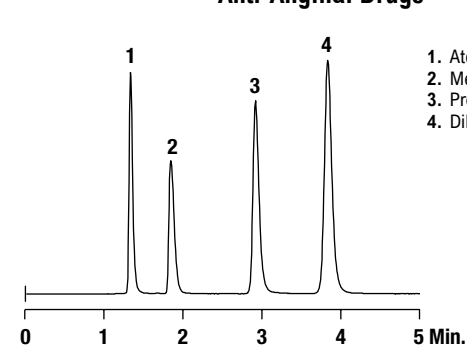


1. Uracil
2. Carbamazepine
3. Phenytoin

Column: Jones Genesis® Phenyl, 4µm, 50 x 4.6mm
(Part No. FM5980E)
Mobile Phase: Methanol:Water (30:70)
Flow Rate: 1.0mL/min
Detector: UV at 210nm

Anti-Anginals

Anti-Anginal Drugs



1. Atenolol
2. Metoprolol
3. Propranolol
4. Diltiazem

Column: Jones Genesis® C18, 4µm, 100 x 4.6mm
(Part No. FM10960E)
Mobile Phase: Acetonitrile:50mM KH₂PO₄, pH3.0 (40:60)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

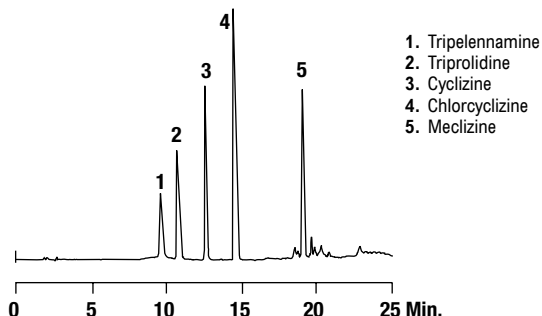
more applications

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hplc applications

Antihistamines

Antihistamines

CHROM
7232


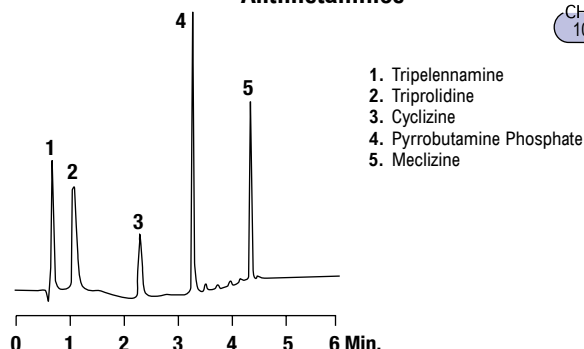
1. Tripeleennamine
2. Triprolidine
3. Cyclizine
4. Chlorcyclizine
5. Meclizine

Column: Alltech® Alltima™ C8, 5µm, 250 x 4.6mm (Part No. 88076)
Mobile Phase: A: 0.05M Potassium Phosphate, pH3.2
 B: Acetonitrile
Gradient:

Time:	0	5	20	25
%B:	25	25	70	70

Flow Rate: 1.3mL/min
Detector: UV at 220nm

Antihistamines

CHROM
10163


1. Tripeleennamine
2. Triprolidine
3. Cyclizine
4. Pyrrobutamine Phosphate
5. Meclizine

Column: ZirChrom® PS, 3µm, 50 x 4.6mm (Part No. ZR09-0546)
Mobile Phase: A: Acetonitrile
 B: 25mM Hydrochloric Acid
Gradient:

Time:	0	1.0	1.1	4.0
%B:	95	85	80	40

Flow Rate: 1.0mL/min
Detector: UV at 254

Antihistamines

Wide-pore reversed-phase columns can have advantages for small-molecule separations. Here a Vydac® 218TP 300Å C18 column separated a mixture of antihistamines in the same time as a 90Å C18 column, but with less organic solvent in the gradient and better resolution.

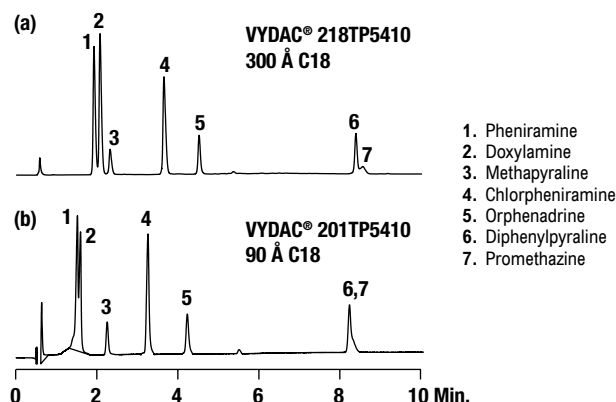
Column: Vydac® C18, 300Å, 5µm, 100 x 4.6mm (Part No. 218TP5410)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.1% Trifluoroacetic Acid in Acetonitrile
Gradient (A):

Time:	0	10
%B:	5	35

Gradient (B):

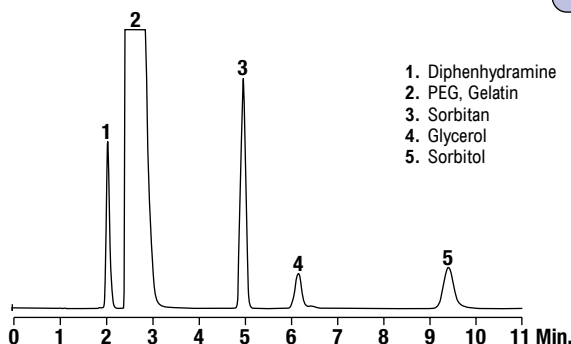
Time:	0	10
%B:	10	40

Flow Rate: 2.5mL/min
Detector: UV at 260nm



1. Pheniramine
2. Doxylamine
3. Methapyraline
4. Chlorpheniramine
5. Orphenadrine
6. Diphenylpyraline
7. Promethazine

OTC Antihistamine and Excipients

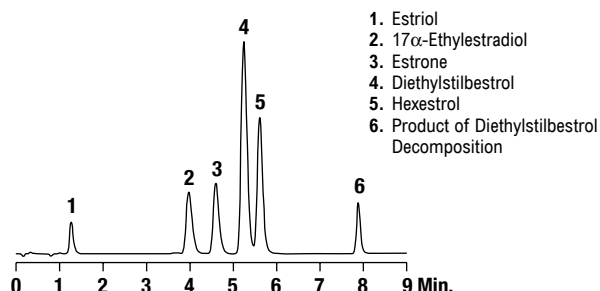
CHROM
10275


1. Diphenhydramine
2. PEG, Gelatin
3. Sorbitan
4. Glycerol
5. Sorbitol

Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: Acetonitrile:0.1% Ammonium Carbonate, pH6.5 (80:20)
Flow Rate: 1.0mL/min
Detector: ELSD

Estrogens

Estrogens



1. Estriol
2. 17α-Ethylestradiol
3. Estrone
4. Diethylstilbestrol
5. Hexestrol
6. Product of Diethylstilbestrol Decomposition

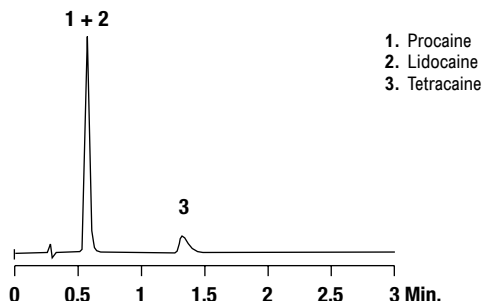
Column: Vydac® Denali®, 5µm, 150 x 4.6mm (Part No. 238DE5415)
Mobile Phase: A: Acetonitrile:Water (20:80)
 B: Acetonitrile:Water (95:5)
Gradient:

Time:	0	8
%B:	40	90

Flow Rate: 1.0mL/min
Detector: UV at 280nm

Anesthetics

Basic Pharmaceuticals

CHROM
10737


1. Procaine
2. Lidocaine
3. Tetracaine

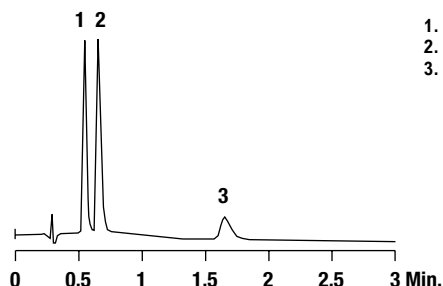
Column: Grace® VisionHT™ C18, 1.5µm, 50 x 2.0mm (Part No. 5139605)

Mobile Phase: 25mM Potassium Phosphate, pH7.0:Methanol (30:70)

Flow Rate: 0.5mL/min

Detector: UV at 230nm

Basic Pharmaceuticals

CHROM
10738


1. Procaine
2. Lidocaine
3. Tetracaine

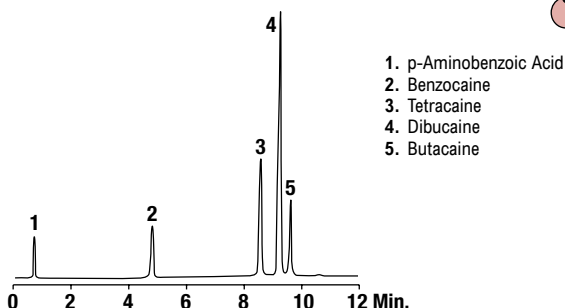
Column: Grace® VisionHT™ C18-P, 1.5µm, 50 x 2.0mm (Part No. 5139606)

Mobile Phase: 25mM Potassium Phosphate, pH7.0:Methanol (30:70)

Flow Rate: 0.5mL/min

Detector: UV at 230nm

Anesthetic Mix

CHROM
10118


1. p-Aminobenzoic Acid
2. Benzocaine
3. Tetracaine
4. Dibucaine
5. Butacaine

Column: Alltech® Alltima™ C8, 5µm, 150 x 4.6mm (Part No. 88072)

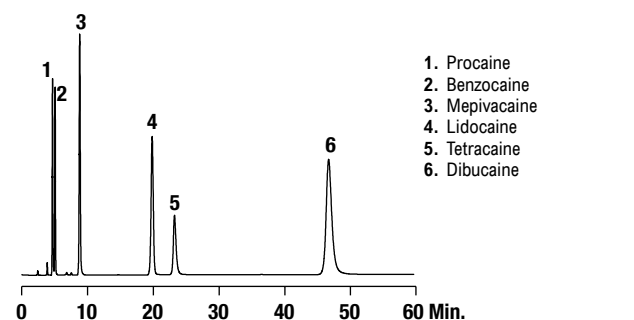
Mobile Phase: A: Water B: Methanol C: Acetonitrile

Gradient:	Time:	0	7
%B:		15	45
%C:		15	35

Flow Rate: 1.5mL/min

Detector: UV at 230nm

Anesthetics



1. Procaine
2. Benzocaine
3. Mepivacaine
4. Lidocaine
5. Tetracaine
6. Dibucaine

Column: Vydac® Denali®, 5µm, 150 x 4.6mm (Part No. 238DE5415)

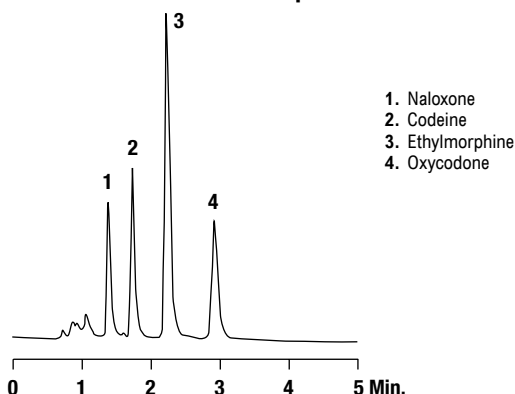
Mobile Phase: Methanol:50mM K₂HPO₄ in Water, pH7.0 (60:40)

Flow Rate: 1.0mL/min

Detector: UV at 220nm

Opiates

Opiates

CHROM
10165


1. Naloxone
2. Codeine
3. Ethylmorphine
4. Oxycodone

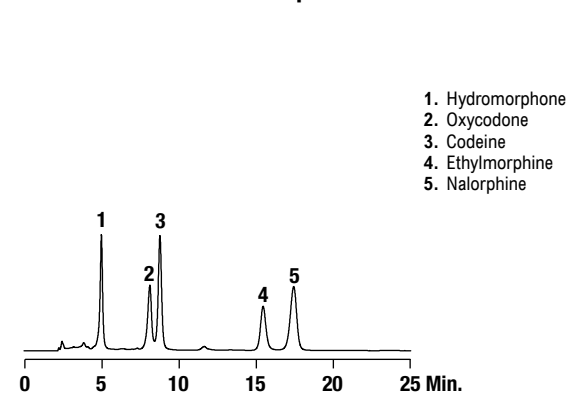
Column: ZirChrom® DiamondBond™-C18, 3µm, 100 x 4.6mm (Part No. DB01-1046)

Mobile Phase: 0.02M Ammonium Phosphate, pH11.0: Tetrahydrofuran (73.5:26.5)

Flow Rate: 1.0mL/min

Detector: UV at 220

Opiates



1. Hydromorphone
2. Oxycodone
3. Codeine
4. Ethylmorphine
5. Nalorphine

Column: Vydac® Denali®, 5µm, 250 x 4.6mm (Part No. 238DE54)

Mobile Phase: Methanol:20mM K₂HPO₄ in Water, pH7.0 (50:50)

Flow Rate: 1.0mL/min

Detector: UV at 254

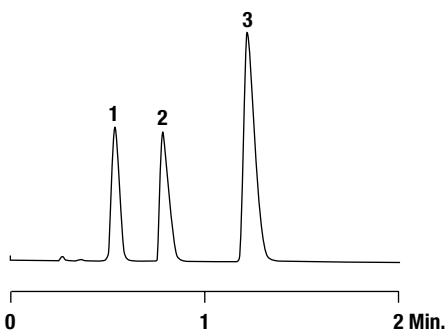
more applications

View our complete searchable chromatogram database at www.discoverysciences.com/chromdb/

hplc applications

Anti-Hypertensives

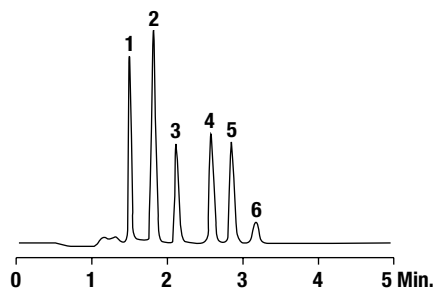
Antihypertensives

CHROM
9395

1. Metoprolol
2. Oxprenolol
3. Propranolol

Column: Alltech® Prevail™ C18, 3µm, 53 x 7mm (Part No. 99279)
Mobile Phase: 0.025M KH₂PO₄, pH3.0:Acetonitrile (70:30)
Flow Rate: 4.0mL/min
Detector: UV at 220

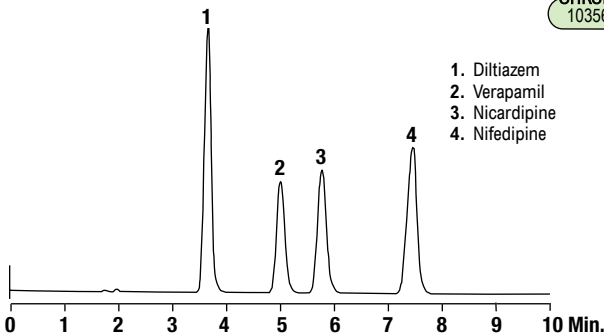
Basic Drugs

CHROM
10161

1. Labetalol
2. Acebutolol
3. Oxprenolol
4. Lidocaine
5. Alprenolol
6. Propranolol

Column: ZirChrom® PBD, 3µm, 150 x 4.6mm (Part No. ZR03-1546)
Mobile Phase: 0.01M Triethylamine, 0.05M Tetramethylammonium Hydroxide, pH12.2:Acetonitrile (65:35)
Flow Rate: 1.0mL/min
Detector: UV at 254

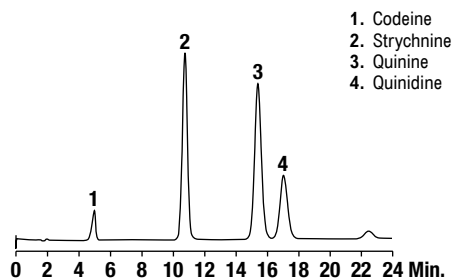
Calcium Channel Blockers

CHROM
10356

1. Diltiazem
2. Verapamil
3. Nicardipine
4. Nifedipine

Column: Alltech® Alltima™ HP CN, 5µm, 150 x 4.6mm (Part No. 87769)
Mobile Phase: 0.02M KH₂PO₄, pH3.0:Acetonitrile (70:30)
Flow Rate: 1.0mL/min
Detector: UV at 218nm

Drug Mix

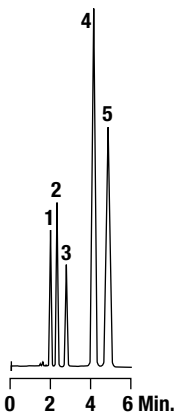
CHROM
10354

1. Codeine
2. Strychnine
3. Quinine
4. Quinidine

Column: Alltech® Alltima™ HP C18 Amide, 5µm, 150 x 4.6mm (Part No. 87733)
Mobile Phase: 0.025M Potassium Phosphate, pH2.8:Methanol (90:10)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Sedatives

Sedatives/Hypnotics

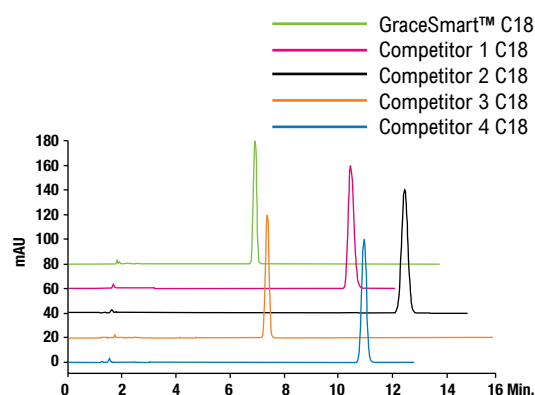
CHROM
8160

1. Barbitol
2. Phenobarbital
3. Butalbital
4. Oxazepam
5. Triazolam

Column: Alltech® Platinum™ C18, 5µm, 150 x 4.6mm (Part No. 32043)
Mobile Phase: 0.05M Ammonium Dihydrogen Orthophosphate, pH4.5: Methanol:Acetonitrile (40:50:10)
Flow Rate: 1.0mL/min
Detector: UV at 230nm

Statins

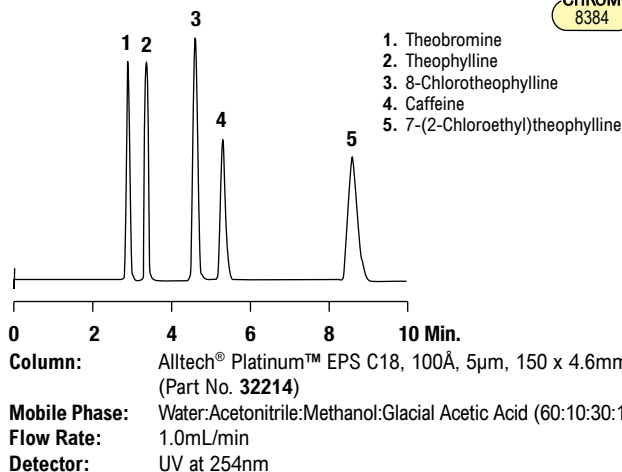
Simvastatin Tablets (U.S.P.)

CHROM
10708

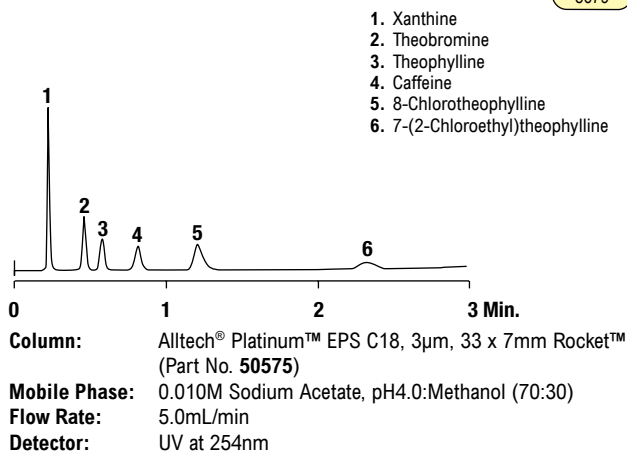
Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: 0.39% Sodium Phosphate Monobasic, pH4.5: Acetonitrile (35:65)
Flow Rate: 1.5mL/min
Detector: UV at 238nm

Anti-Asthmatics

Methylxanthines

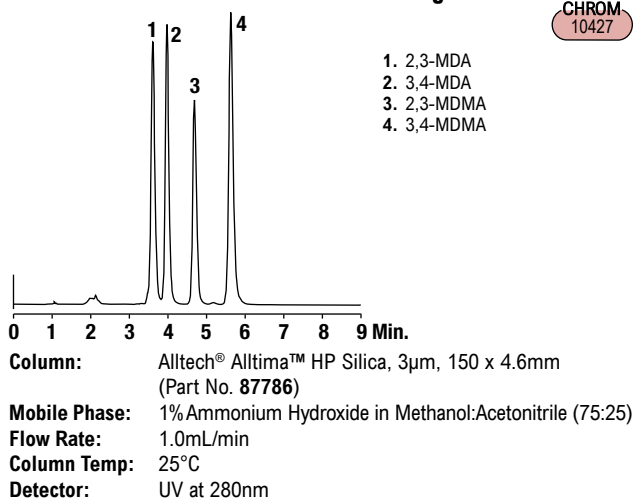
CHROM
8384

Theophylline & Metabolites

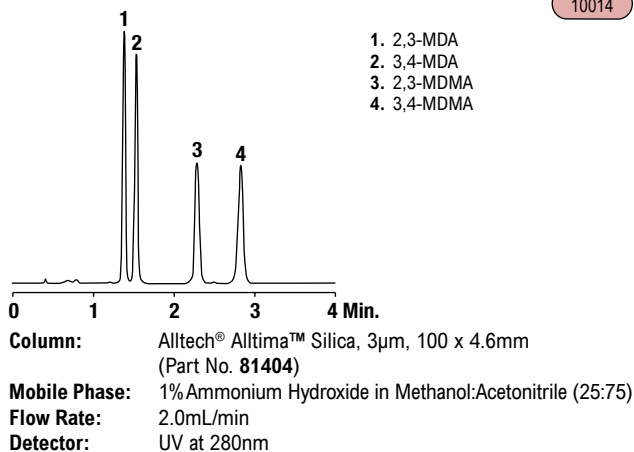
CHROM
8679

Amphetamines

MDA and MDMA Analogs

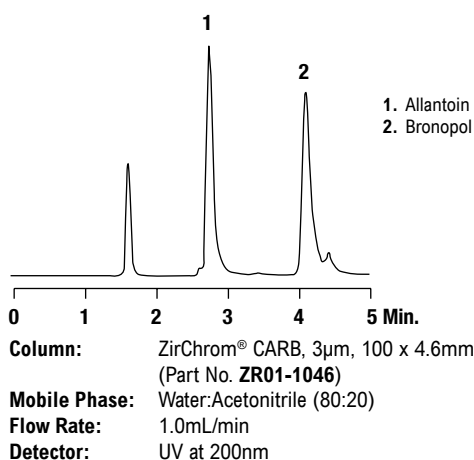
CHROM
10427

MDA & MDMA Analogs

CHROM
10014

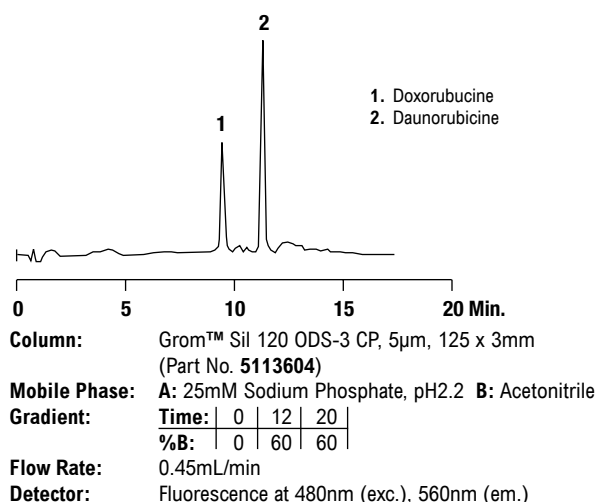
Antiseptics

Highly Polar Cosmetic Ingredients

CHROM
10166

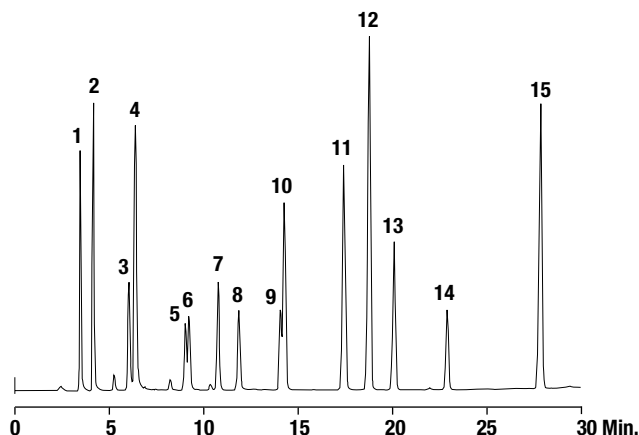
Chemotherapeutics

Rubicines - Chemotherapeutics



hplc applications

Diuretics



Column: Alltech® Alltima™ C18, 5µm, 250 x 4.6mm (Part No. 88056)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in 0.025M Ammonium Acetate B: 0.1% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	30
%B:	25	65

Flow Rate: 1.0mL/min
Detector: UV at 254nm

Diuretics and Uricosuric Agents

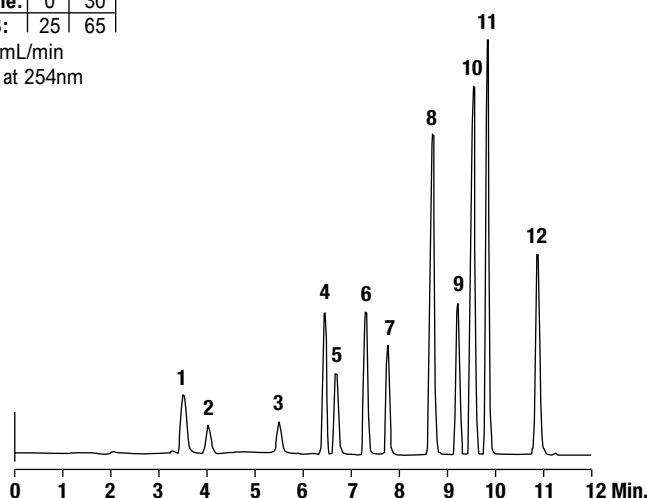
1. Amiloride HCl Hydrate
2. Acetazolamide
3. Hydrochlorothiazide
4. Triamterene
5. Chlorthalidone
6. Furosemide
7. Hydroflumethiazide
8. Clopamide
9. Ethacrynic Acid
10. Trichloromethiazide
11. Probenecid
12. Indapamide
13. Bumetanide
14. Bendroflumethiazide
15. Spironolactone

CHROM-10246

Doping Agents

1. Amiloride HCl Hydrate
2. Acetazolamide
3. Hydrochlorothiazide
4. Chlorthalidone
5. Hydroflumethiazide
6. Clopamide
7. Trichloromethiazide
8. Indapamide
9. Bendroflumethiazide
10. Bumetanide
11. Probenecid
12. Spironolactone

CHROM-10262



Column: Alltech® Alltima™ C18, 5µm, 250 x 4.6mm (Part No. 88056)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in 0.025M Ammonium Acetate B: 0.1% Trifluoroacetic Acid in Acetonitrile
Gradient:

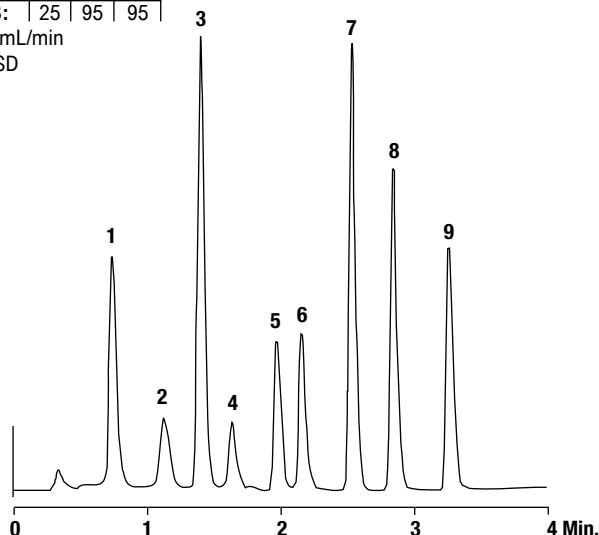
Time:	0	10	15
%B:	25	95	95

Flow Rate: 1.0mL/min
Detector: ELSD

Diuretics — High Throughput

1. Acetazolamide
2. Hydrochlorothiazide
3. Triamterene
4. Hydroflumethiazide
5. Clopamide
6. Trichloromethiazide
7. Indapamide
8. Bumetanide
9. Spironolactone

CHROM-10265



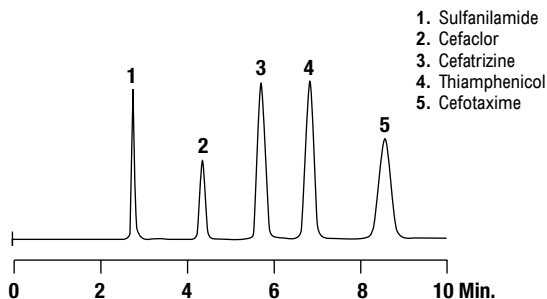
Column: Alltech® Alltima™ C18, 3µm, 53 x 7mm Rocket™ (Part No. 50605)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in 0.025M Ammonium Acetate B: 0.1% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	4
%B:	20	95

Flow Rate: 3.5mL/min
Detector: UV at 254nm

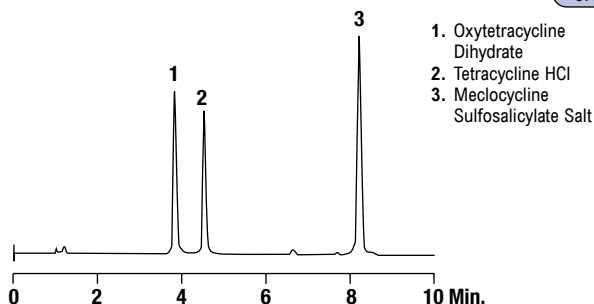
Antibiotics

Antibacterials

CHROM
8711

Column: Alltech® Platinum™ EPS C18, 5µm, 150 x 4.6mm (Part No. 32043)
Mobile Phase: 0.025M KH₂PO₄, pH3.0:Acetonitrile (90:10)
Flow Rate: 1.0mL/min
Detector: UV at 230nm

Antibacterials

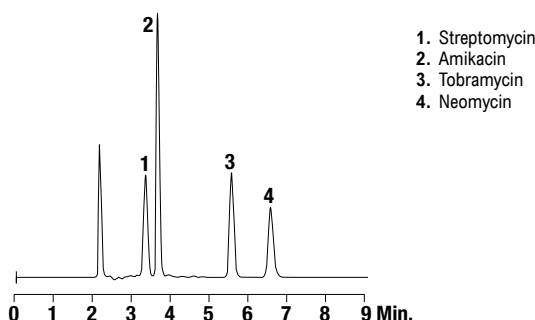
CHROM
8764

Column: Alltech® Alltima™ C18, 3µm, 100 x 4.6mm (Part No. 81382)
Mobile Phase: A: 0.05M KH₂PO₄, pH3.0 B: Acetonitrile
Gradient:

Time:	0	10
%B:	15	40

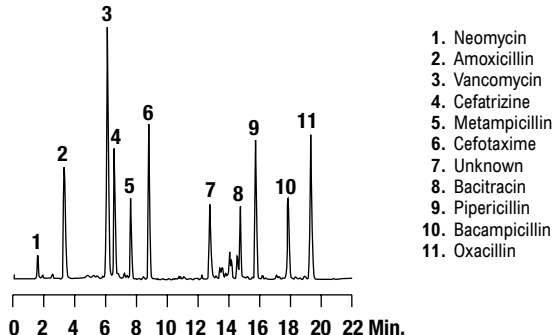
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Aminoglycoside Antibiotics

CHROM
9210

Column: Alltech® Alltima™ C18, 5µm, 250 x 4.6mm (Part No. 88056)
Mobile Phase: 0.3% Pentafluoropropionic Acid in 43.7mM Ammonium Formate, pH2.7:0.3% Pentafluoropropionic Acid in Methanol (45:55)
Flow Rate: 1.0mL/min
Detector: ELSD

Antibacterials

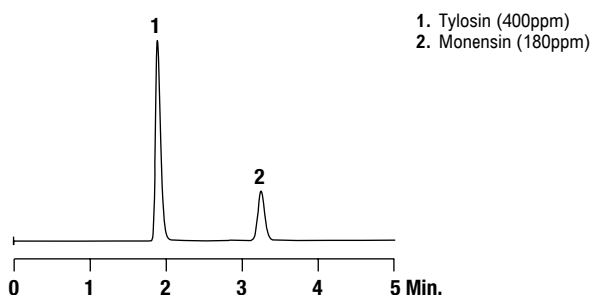
CHROM
9396

Column: Alltech® Prevail™ C18, 5µm, 150 x 4.6mm (Part No. 99208)
Mobile Phase: A: 0.025M KH₂PO₄, pH3.0 B: Acetonitrile
Gradient:

Time:	0	15	22
%B:	10	40	40

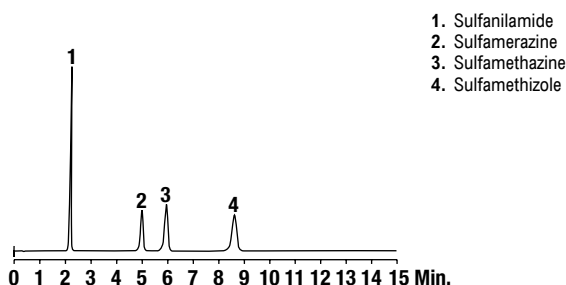
Flow Rate: 1.0mL/min
Detector: UV at 210

Tylosin and Monensin

CHROM
10319

Column: Alltech® Prevail™ Select C18, 5µm, 150 x 4.6mm (Part No. 99300)
Mobile Phase: Ammonium Hydroxide in Water, pH9.0:Acetonitrile (5:95)
Flow Rate: 1.0mL/min
Detector: ELSD

Sulfa Drugs

CHROM
10351

Column: Alltech® Alltima™ HP C18 HiLoad, 5µm, 150 x 4.6mm (Part No. 87697)
Mobile Phase: 0.1% Phosphoric Acid:Acetonitrile (85:15)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

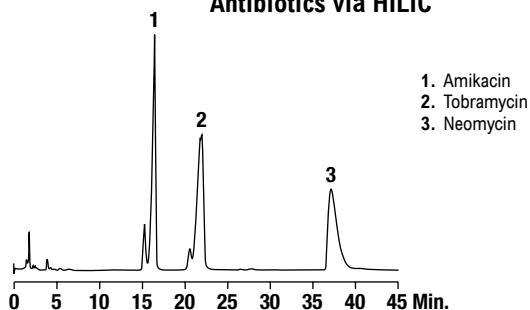
more applications

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hplc applications

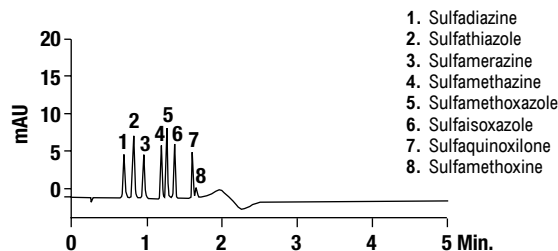
Antibiotics

Antibiotics via HILIC

CHROM
10626


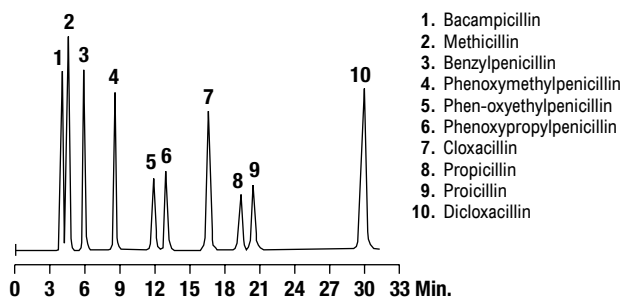
Column: Alltech® Alltima™ HP HILIC, 5µm, 150 x 4.6mm (Part No. 86464)
Mobile Phase: Acetonitrile:Methanol:Water (87:11:2)
Flow Rate: 1.0mL/min
Detector: ELSD

Sulfa Drugs

CHROM
10724


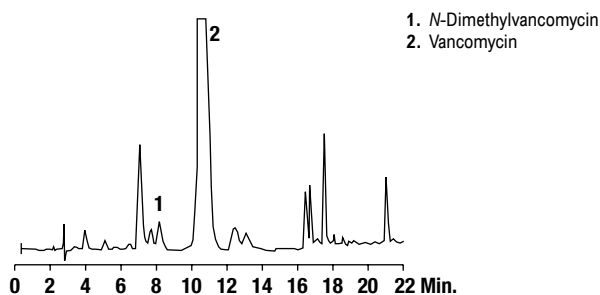
Column: Grace® VisionHT™ C18-P, 1.5µm, 50 x 2.0mm (Part No. 5139606)
Mobile Phase: A: 0.1% Formic Acid B: Methanol
Gradient: Time: 0 | 1.4 | %B: 20 | 100 |
Flow Rate: 0.4mL/min
Detector: UV at 280nm

Penicillin Antibiotics



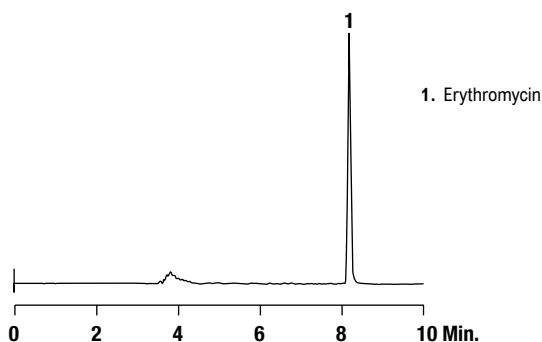
Column: Grom™ Sil ODS-7 pH, 4µm, 150 x 4mm
Mobile Phase: 50mM Monosodium Phosphate, pH2.3
Flow Rate: 0.75mL/min
Detector: UV at 220nm

Analysis of Vancomycin



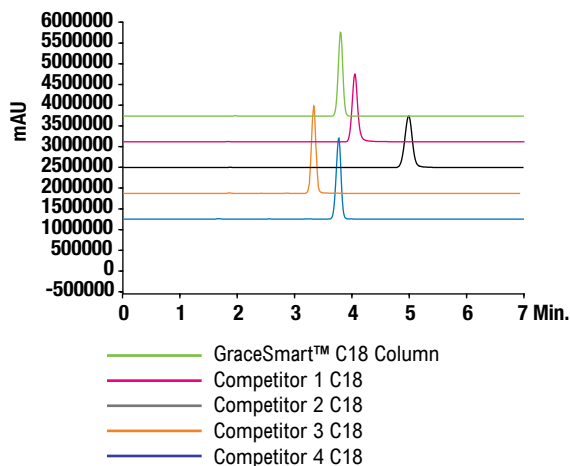
Column: Grom™ Sil 100 ODS-0 AB, 5µm, 250 x 4mm
Mobile Phase: 0.1% Phosphoric Acid:Acetonitrile (15:85)
Flow Rate: 1.0mL/min
Detector: UV at 210nm

Erythromycin

CHROM
8630


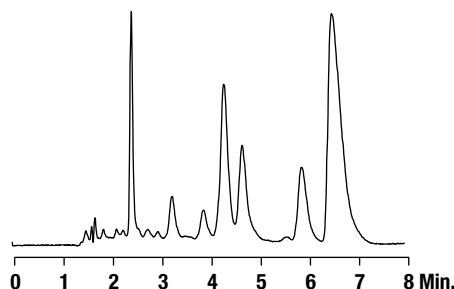
Column: Alltech® Macrosphere™ 300 C4, 7µm, 250 x 4.6mm (Part No. 71039)
Mobile Phase: Acetonitrile: 0.2M Ammonium Acetate in Water, pH4.5 (95:5)
Flow Rate: 1.0mL/min
Detector: ELSD

Amoxicillin (U.S.P.)

CHROM
10697


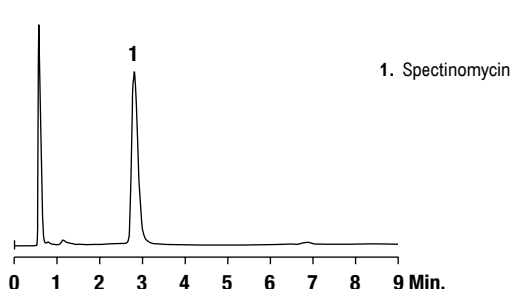
Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: 0.05N Monobasic Potassium Phosphate, pH5.0: Acetonitrile (96:4)
Flow Rate: 1.5mL/min
Detector: UV at 230nm

Bacitracin



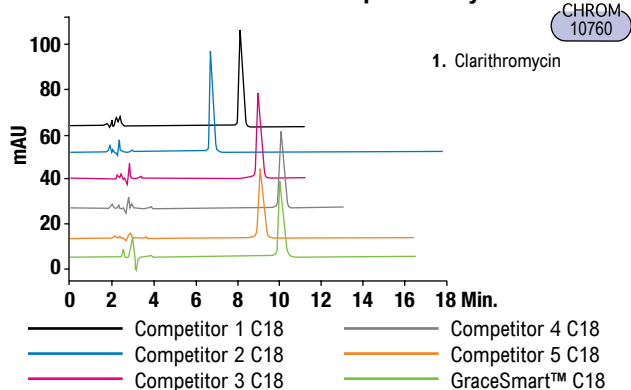
Column: Jones Genesis® C18, 4µm, 150 x 4.6mm (Part No. FM15960E)
Mobile Phase: Acetonitrile:0.1% Trifluoroacetic Acid (31:69)
Flow Rate: 1.0mL/min
Detector: UV at 214nm

Spectinomycin



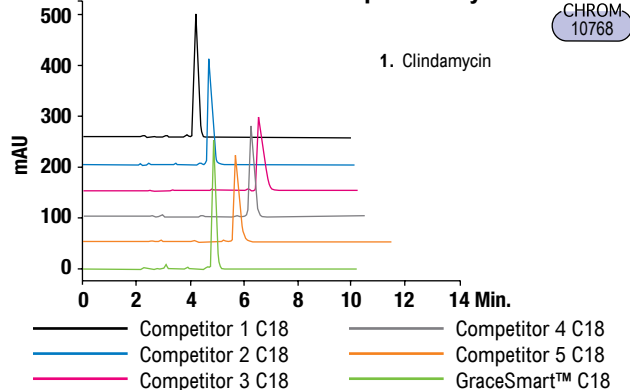
Column: Alltech® Alltima™ HP C18 Amide, 3µm, 50 x 4.6mm (Part No. 87829)
Mobile Phase: 10mM Ammonium Carbonate:Acetonitrile (98:2)
Flow Rate: 1.0mL/min
Detector: ELSD

Clarithromycin on Chinese Pharmacopeia Assay



Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Phosphate Buffer (Dissolve 9.11g Potassium Dihydrogen Phosphate in 1000mL Water, add 2mL Triethylamine, adjust with Phosphoric Acid to pH of 5.5):Acetonitrile (60:40)
Flow Rate: 1.0mL/min
Detector: UV at 210nm

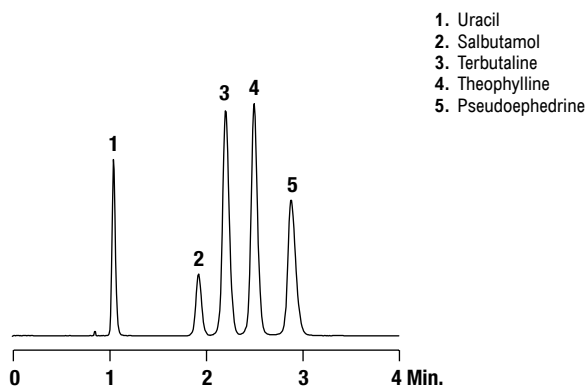
Clindamycin Hydrochloride on Chinese Pharmacopeia Assay



hplc applications

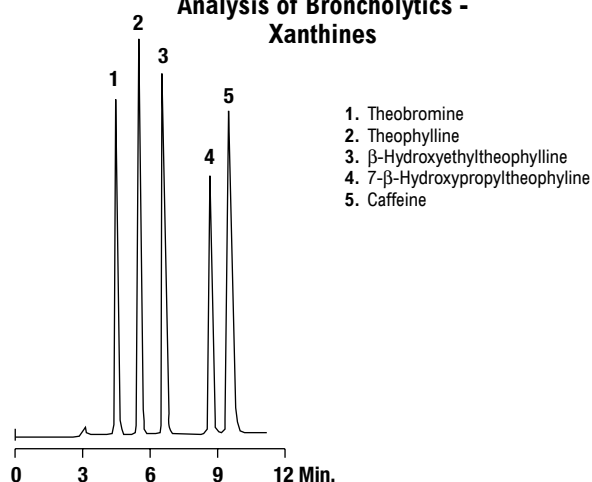
Bronchodilators

Bronchodilators



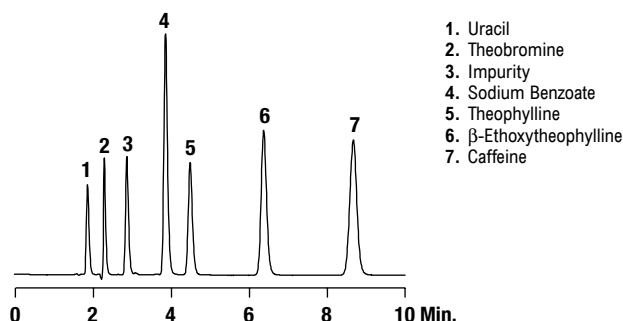
Column: Jones Genesis® Phenyl, 4µm, 150 x 4.6mm (Part No. FM5980E)
Mobile Phase: Acetonitrile:25mM KH₂PO₄, pH3.0 (10:90)
Flow Rate: 2.0mL/min
Detector: UV at 220nm

Analysis of Broncholytics - Xanthines



Column: Grom™ Sil 120 ODS-4 HE, 5µm, 250 x 4mm (Part No. 5113626)
Mobile Phase: 0.4% Sodium Acetate:Acetonitrile (85:15)
Flow Rate: 0.8mL/min
Detector: UV at 254nm

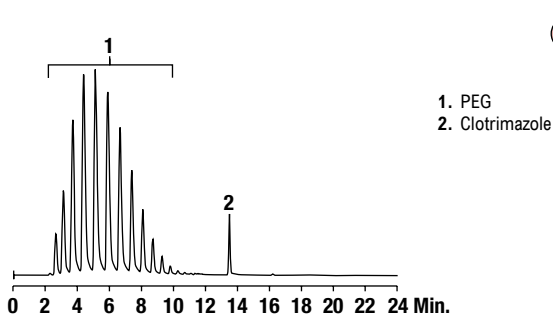
Xanthines



Column: Jones Genesis® C18, 4µm, 150 x 4.6mm (Part No. FM15960E)
Mobile Phase: Acetonitrile:50mM Aqueous Ammonium Acetate, pH4.7 (12:88)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Antifungal

Lotrimin® Topical Assay



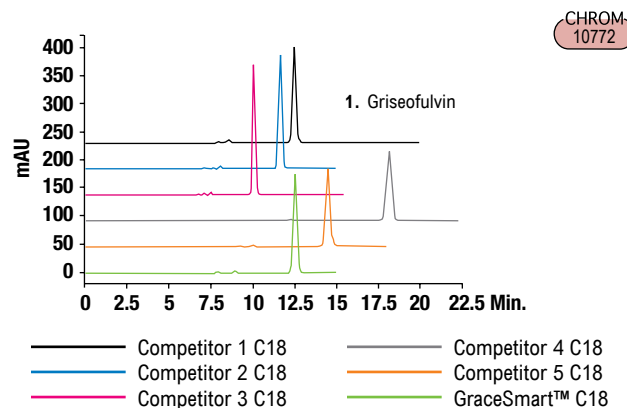
CHROM 10447

Column: Alltech® Alltima™ C18, 5µm, 150 x 4.6mm (Part No. 88302)
Mobile Phase: A: Water to pH7.0 with Acetic Acid B: Methanol
Gradient:

Time:	0	8	10	20	25
%B:	30	50	100	100	30

Flow Rate: 1.0mL/min
Detector: ELSD

Griseofulvin Assay on Chinese Pharmacopeia



CHROM 10772

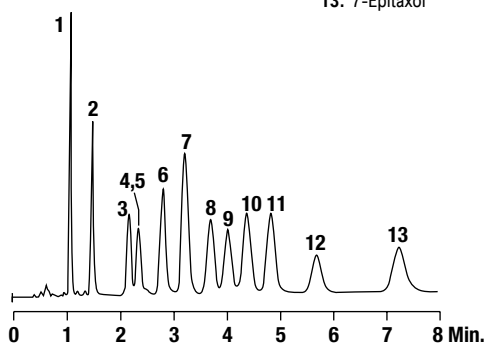
Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: 0.05mol/L Potassium Dihydrogen Phosphate: Acetonitrile:Methanol (57:38:5)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Taxols

Taxol® and Related Taxanes in Yew

CHROM
9221

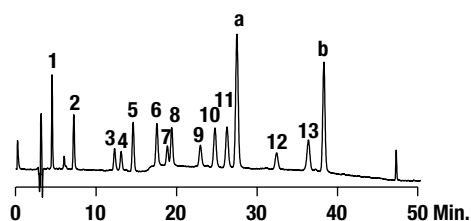
1. 10-Deacetylbaccatin III
2. Baccatin III
3. 7-Xylosyl-10-deacetyltaxol B
4. Taxinine M
5. 7-Xylosyl-10-deacetyltaxol
6. 7-Xylosyl-10-deacetyltaxol C
7. 10-Deacetyltaxol
8. 7-Xylosyltaxol
9. Cephalomannine (Taxol® B)
10. 7-Epi-10-deacetyltaxol
11. Taxol®
12. Taxol® C
13. 7-Epitaxol



Column: Alltech® Alltima™ Phenyl 3µm, 53 x 7mm Rocket™ (Part No. 81174)
Mobile Phase: 0.05% Trifluoroacetic Acid:Methanol:Acetonitrile (50:19:31)
Flow Rate: 2.5mL/min
Detector: UV at 230nm

Taxanes

1. 10-Deacetylbaccatin III
2. Baccatin III
3. 10-Deacetyl-7-xylosyltaxol B
4. Taxinine M
5. 10-Deacetyl-7-xylosyltaxol
6. 10-Deacetyl-7-xylosyltaxol C
7. 10-Deacetyltaxol
8. 7-Xylosyltaxol
9. Cephalomannine
10. 10-Deacetyl-7-epitaxol
11. Taxol®
12. Taxol® C
13. 7-Epitaxol
- a. 3'-Fluorophenyl-10-deacetyltaxol
- b. 3'-Fluorophenyltaxol

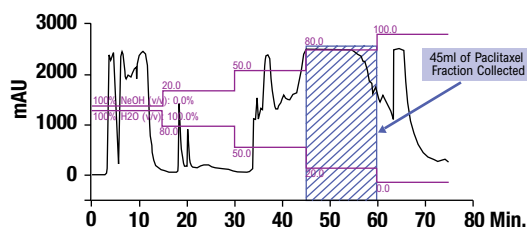


Column: Vydac® C18, 5µm, 250 x 4.6mm (Part No. 218MS54)
Mobile Phase: A: 50mM Sodium Acetate, pH6.8 B: Acetonitrile
Gradient:

Time:	0	2	32	42	42
%B:	34	34	44	60	100

Flow Rate: 1.0mL/min
Detector: UV at 254nm

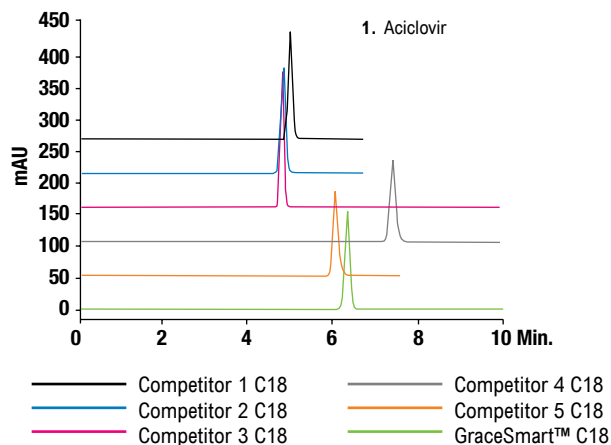
Preparative Paclitaxel Purification



Silica: Grace® Davisil® C18, 50µm (Part No. 5134095)
Column: 10mm i.d. x 200mm Length
Sample: 10g of powdered yew bark extract
Mobile Phase: See Chromatogram
Detector: UV at 230nm

Antiviral

Aciclovir Assay on Chinese Pharmacopeia

CHROM
10764

Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Methanol:Water (10:90)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

more applications

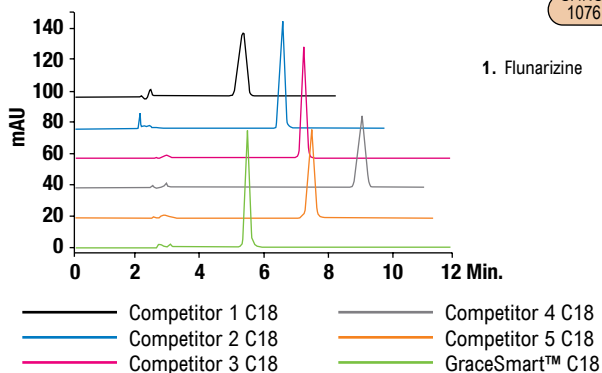
View our complete searchable chromatogram database at www.discoverysciences.com/chromdb/

hplc applications

Calcium Channel Blockers

Flunarizine Hydrochloride Capsules on Chinese Pharmacopeia Assay

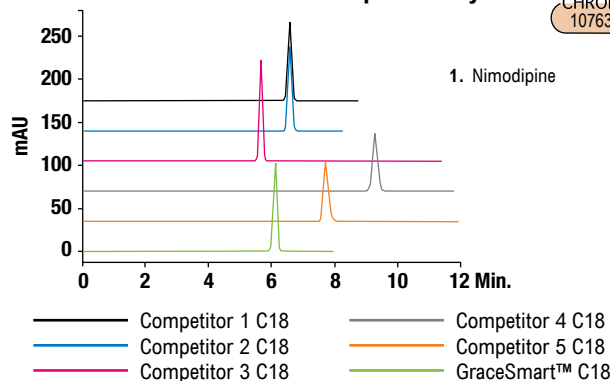
CHROM 10761



Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Methanol:Phosphate Buffer (Dissolve 1.36g Potassium Dihydrogen Phosphate in 1000mL Water, add 4mL Triethylamine, adjust with Phosphoric Acid to pH3.5) (75:25)
Flow Rate: 1.0mL/min
Detector: UV at 253nm

Nimodipine Tablets on Chinese Pharmacopeia Assay

CHROM 10763

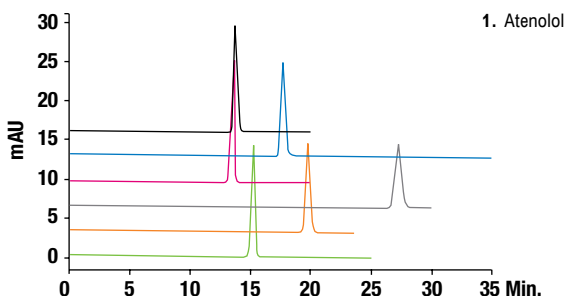


Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Methanol:Acetonitrile:Water (35:38:27)
Flow Rate: 1.0mL/min
Detector: UV at 237nm

Beta Blockers

Atenolol Assay on Chinese Pharmacopeia

CHROM 10777

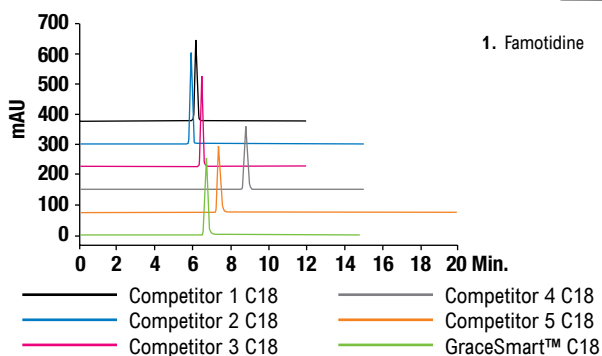


Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: 700mL Phosphate Buffer (6.8g Potassium Dihydrogen Phosphate in 1000mL Water, adjust pH3.0 with Phosphoric Acid), add Methanol 300mL and Sodium 1-Octanesulfonate 1.30g
Flow Rate: 1.0mL/min
Detector: UV at 275nm

Histamine Receptor Antagonists

Famotidine Tablets on Chinese Pharmacopeia Assay

CHROM 10779

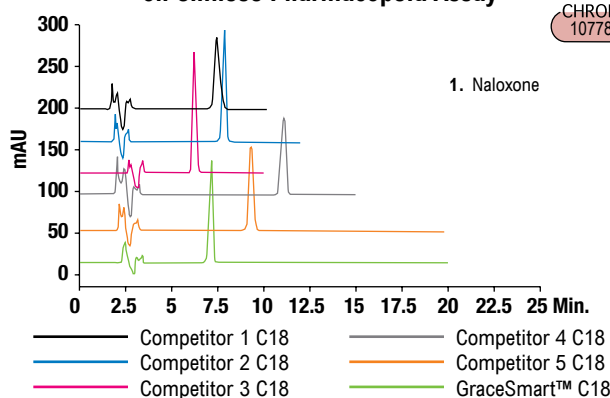


Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Sodium 1-Heptanesulfate solvent (2.0g Sodium 1-Heptanesulfate in 900mL Water, adjust to pH 3.9 with Acetic Acid):Acetonitrile:Methanol (25:6:1)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Narcotic Analgesic Antagonists

Naloxone Hydrochloride Injection on Chinese Pharmacopeia Assay

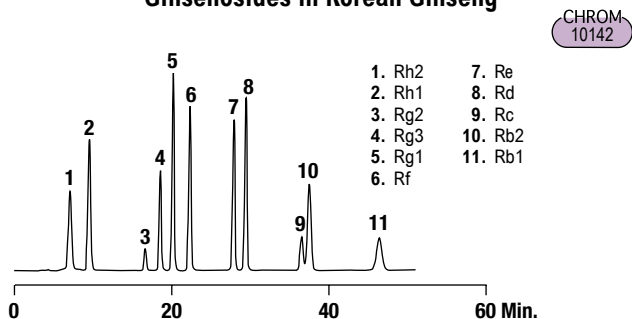
CHROM 10778



Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Sodium 1-octanesulfonate solvent (1.36g Sodium 1-octanesulfonate, 1.0g Sodium Chloride in 580mL Water):Methanol:Phosphoric Acid (580:420:1)
Flow Rate: 1.0mL/min
Detector: UV at 229nm

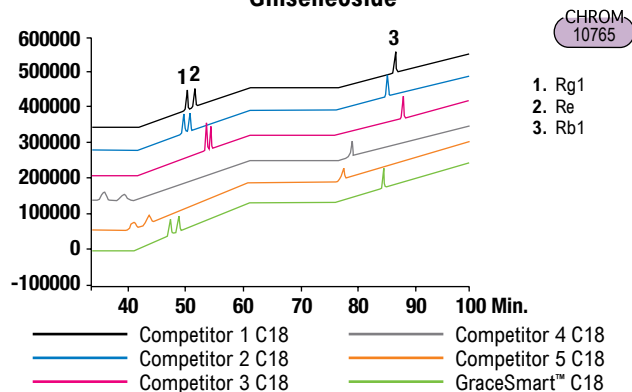
Ginseng

Ginsenosides in Korean Ginseng



Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile:Water:Isopropyl Alcohol (80:5:15)
 B: Acetonitrile:Water:Isopropyl Alcohol (67:21:12)
Gradient: Time: 0 | 28 | 35 | 45 | 50 | 51 | 57
 %B: 25 | 85 | 80 | 75 | 90 | 100 | 25
Flow Rate: 0.8mL/min
Detector: ELSD

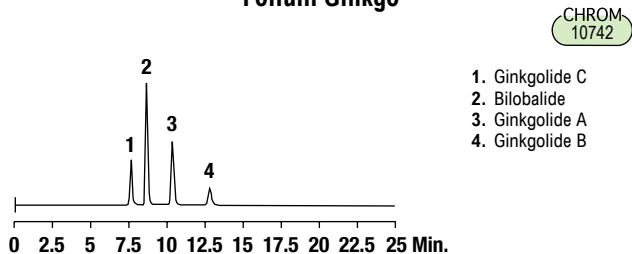
Ginseneoside



Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: A: Water B: Acetonitrile
Gradient: Time: 0 | 35 | 55 | 70 | 100
 %B: 19 | 19 | 29 | 29 | 40
Flow Rate: 1.0mL/min
Detector: ELSD

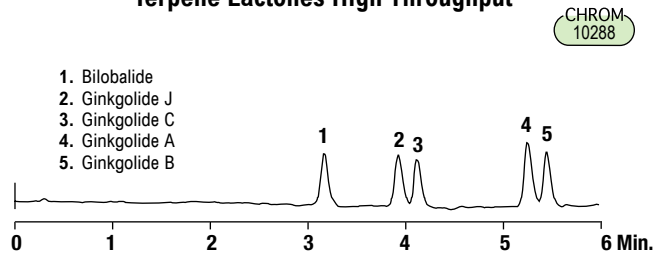
Ginkgo Biloba

Folium Ginkgo



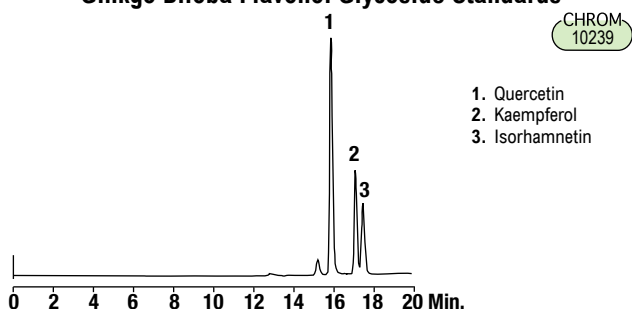
Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Methanol:Tetrahydrofuran:Water (25:10:65)
Flow Rate: 1.0mL/min
Detector: ELSD

Terpene Lactones High Throughput



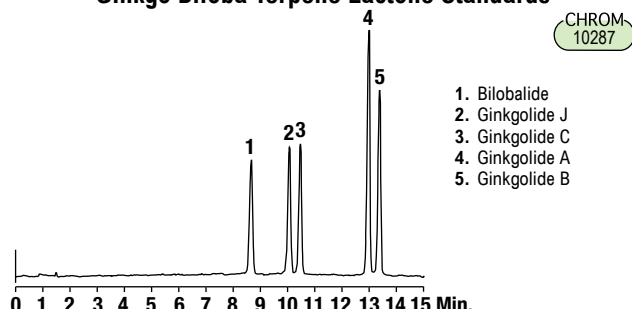
Column: Alltech® Alltima™ C18, 3µm, 53 x 7mm Rocket™ (Part No. 50605)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.1% Trifluoroacetic Acid in Methanol
Gradient: Time: 0 | 5
 %B: 10 | 45
Flow Rate: 5.0mL/min
Detector: ELSD

Ginkgo Biloba Flavonol Glycoside Standards



Column: Alltech® Platinum™ C18, 5µm, 250 x 4.6mm (Part No. 32064)
Mobile Phase: A: 0.05% Trifluoroacetic Acid in Water:Methanol (95:5)
 B: 0.05% Trifluoroacetic Acid in Methanol
Gradient: Time: 0 | 20
 %B: 10 | 90
Flow Rate: 1.0mL/min
Detector: ELSD

Ginkgo Biloba Terpene Lactone Standards



Column: Alltech® Alltima™ C18, 3µm, 100 x 4.6mm (Part No. 813812)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.1% Trifluoroacetic Acid in Methanol
Gradient: Time: 0 | 15
 %B: 10 | 55
Flow Rate: 1.3mL/min
Detector: ELSD

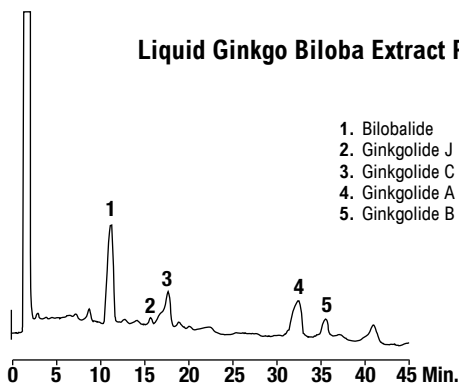
more applications

View our complete searchable chromatogram database at www.discoverysciences.com/chromdb/

hplc applications

Liquid Ginkgo Biloba Extract Prep

CHROM
10315



Column: Alltech® Alltima™ C18, 5µm, 150 x 10mm (Part No. 81102)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.1% Trifluoroacetic Acid in Methanol
Gradient:

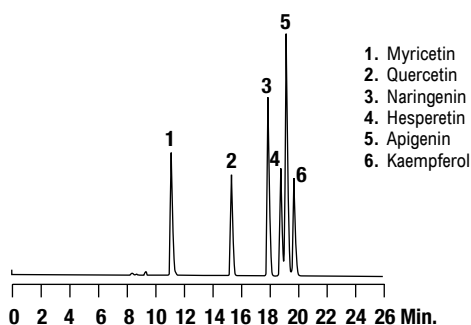
Time:	0	45
%B:	22	32

Flow Rate: 5.0mL/min
Detector: ELSD

Flavonoids

Polyphenolic Flavonoids

CHROM
9397



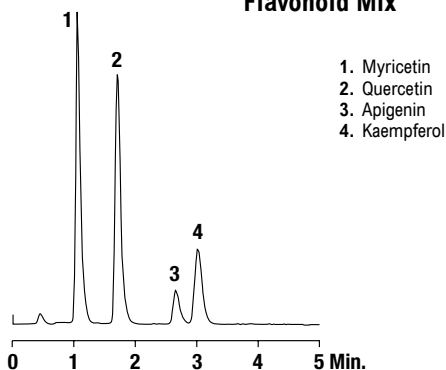
Column: Alltech® Prevail™ C18, 5µm, 150 x 4.6mm (Part No. 99208)
Mobile Phase: A: 0.025M KH₂PO₄, pH2.5 B: Acetonitrile
Gradient:

Time:	0	15	25
%B:	20	40	40

Flow Rate: 1.0mL/min
Detector: UV at 280

Flavonoid Mix

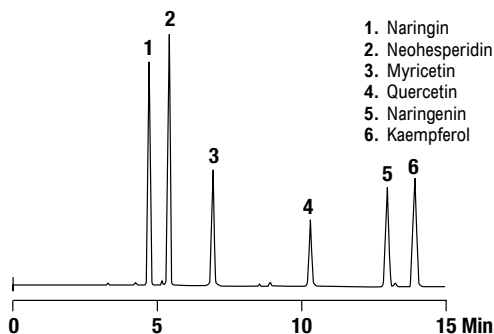
CHROM
9271



Column: Alltech® Alltima™ C18 3µm, 53 x 7mm Rocket™ (Part No. 50605)
Mobile Phase: 0.1% Trifluoroacetic Acid in Water:
 0.1% Trifluoroacetic Acid in Acetonitrile (65:35)
Flow Rate: 2.5mL/min
Detector: ELSD

Flavonoid Mix

CHROM
8887



Column: Alltech® Alltima™ C18, 3µm, 100 x 4.6mm (Part No. 81382)
Mobile Phase: A: 0.05M K₂HPO₄, pH2.5 B: Acetonitrile
Gradient:

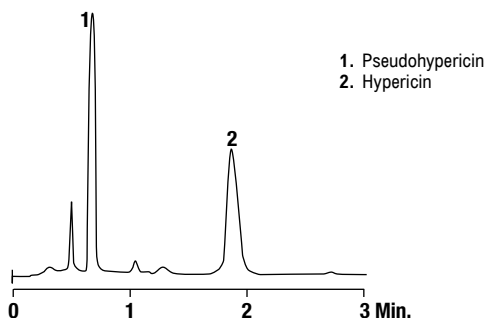
Time:	0	15
%B:	20	40

Flow Rate: 1.0mL/min
Detector: UV at 280nm

St. John's Wort

Hypericins

CHROM
9107

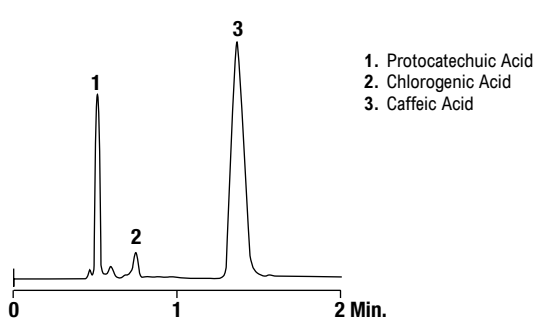


Column: Alltech® Alltima™ C18, 3µm, 53 x 7mm Rocket™ (Part No. 50605)
Mobile Phase: 0.2% Phosphoric Acid:Methanol (5:95)
Flow Rate: 4.0mL/min
Detector: Vis at 585nm

Echinacea

Phenolic Acids

CHROM
9110



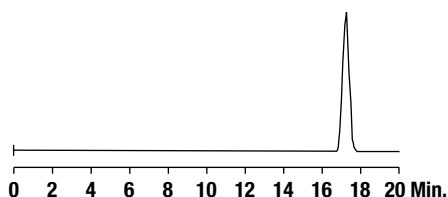
Column: Alltech® Alltima™ C18, 3µm, 53 x 7mm Rocket™ (Part No. 50605)
Mobile Phase: 0.01M K₂HPO₄, pH2.6:Acetonitrile (80:20)
Flow Rate: 3.5mL/min
Detector: UV at 330nm

Chinese Pharmacopeia

Fructus Liquidambaris

CHROM
10743

1. Liquidambaric Acid

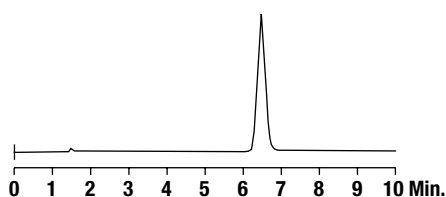


Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Methanol:Water:Acetic Acid (87:13:0.1)
Flow Rate: 1.0mL/min
Detector: ELSD

Fructus Kochiae

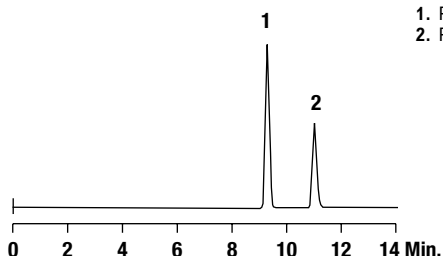
CHROM
10744

1. Momordin Ic



Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Methanol:Water:Acetic Acid (85:15:0.2)
Flow Rate: 1.0mL/min
Detector: ELSD

Bulbus Fritillariae Thunbergii

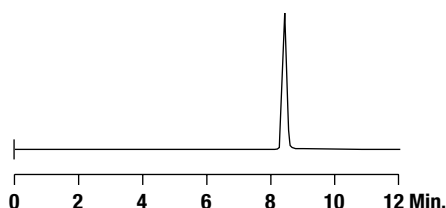
CHROM
107451. Peimine
2. Peininine

Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Acetonitrile:Water:Diethylamine (70:30:0.3)
Flow Rate: 1.0mL/min
Detector: ELSD

Rhizoma Anemarrhenae

CHROM
10746

1. Sarsasapogenin

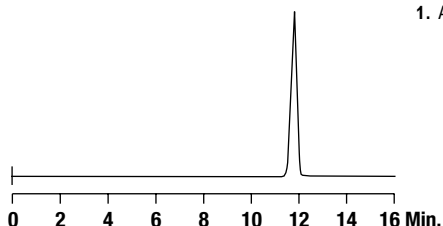


Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Methanol:Water (95:5)
Flow Rate: 1.0mL/min
Detector: ELSD

Radix Astragali

CHROM
10747

1. Astragaloside IV



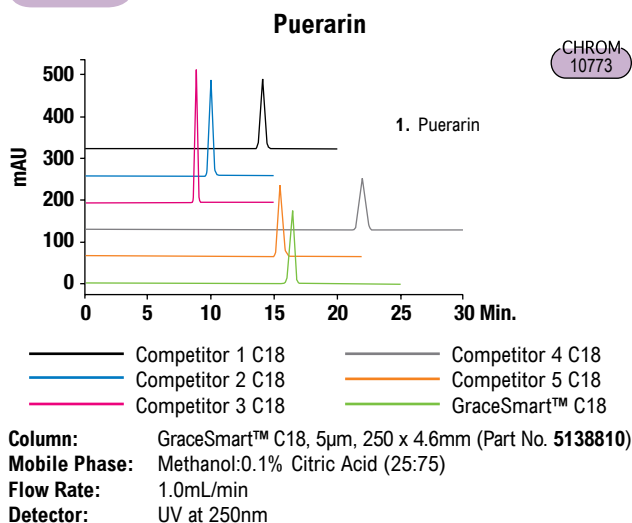
Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Acetonitrile:Water (35:65)
Flow Rate: 1.0mL/min
Detector: ELSD

more applications

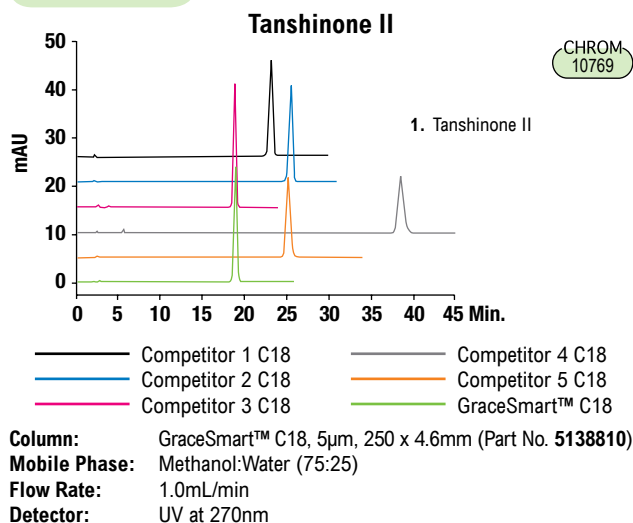
View our complete searchable chromatogram database at www.discoverysciences.com/chromdb/

hplc applications

Puerarin

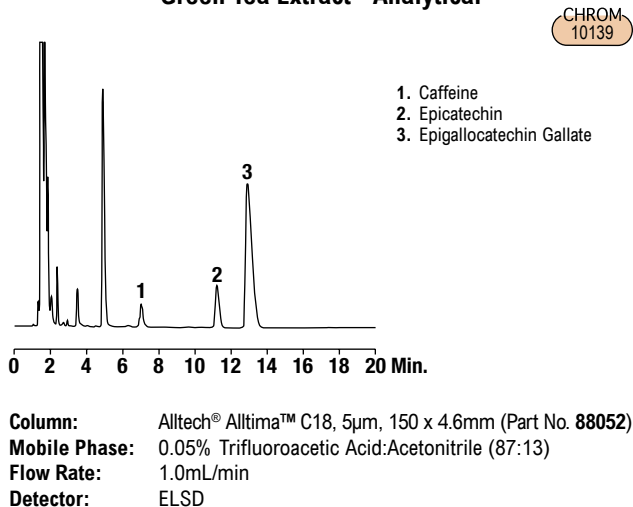


Tanshinone II

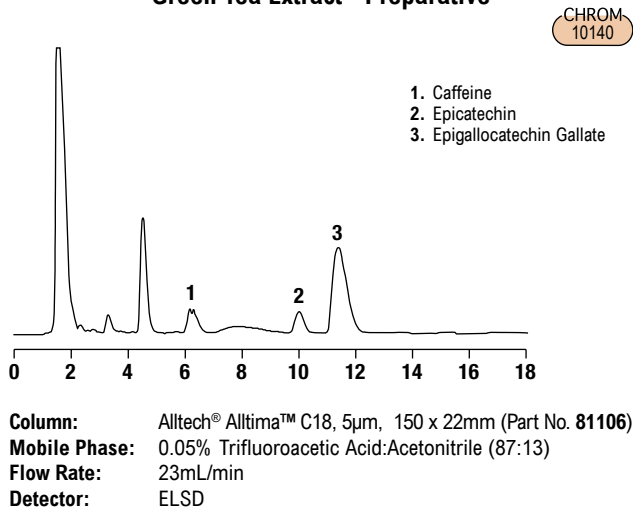


Green Tea

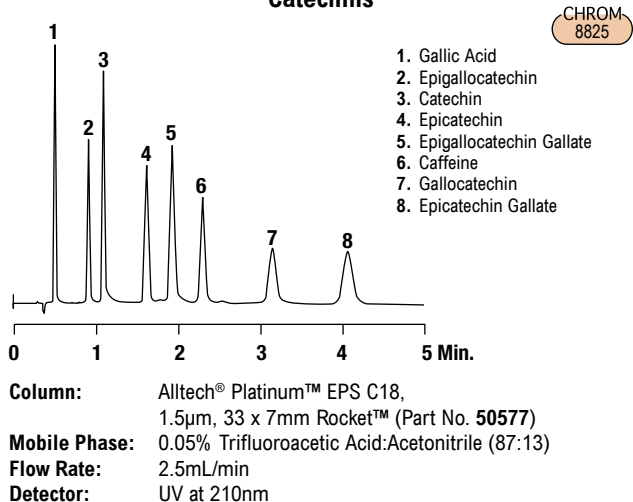
Green Tea Extract - Analytical



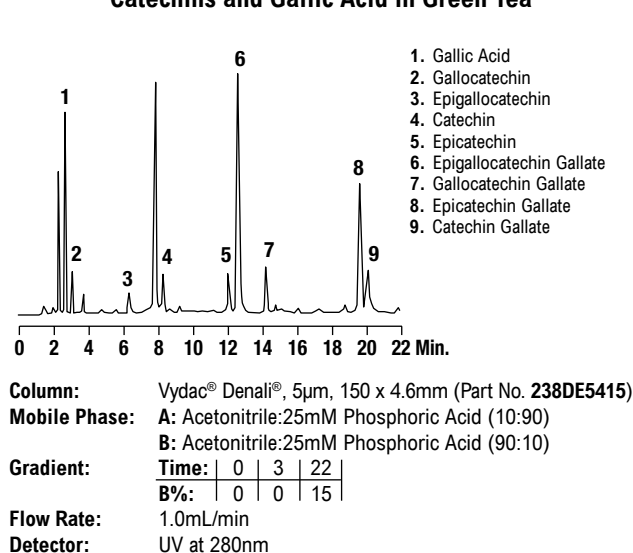
Green Tea Extract - Preparative



Catechins

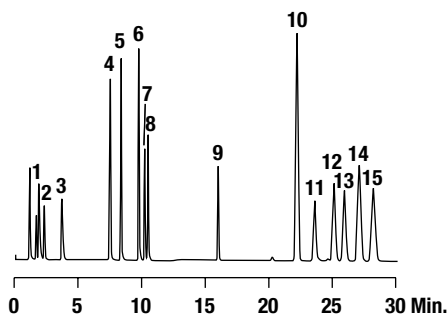


Catechins and Gallic Acid in Green Tea



Vitamins

Water- and Fat-Soluble Vitamins

CHROM
9545

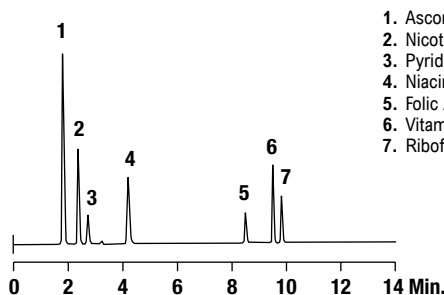
1. Thiamine
2. Ascorbic Acid
3. Nicotinic Acid
4. Niacinamide
5. Pantothenic Acid
6. Riboflavin
7. Cyanocobalamin
8. Biotin
9. Vitamin A
10. Δ -Tocopherol
11. γ -Tocopherol
12. α -Tocopherol
13. Vitamin D2
14. Vitamin D3
15. Vitamin K

Column: Alltech® Prevail™ C18, 5 μ m, 150 x 4.6mm (Part No. 99208)
Mobile Phase: A: Water pH3.2 w/Formic Acid
 B: Acetonitrile:Methanol (83:17)
Gradient:

Time:	0	3	10	10.1	30
%B:	0	0	45	100	100

Flow Rate: 1.5mL/min
Detector: ELSD

Water-Soluble Vitamins

CHROM
10733

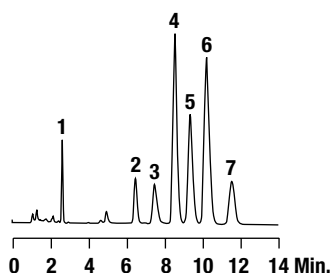
1. Ascorbic Acid
2. Nicotinic Acid
3. Pyridoxamine
4. Niacinamide
5. Folic Acid
6. Vitamin B12
7. Riboflavin

Column: GraceSmart™ C18, 5 μ m, 150 x 4.6mm (Part No. 5138812)
Mobile Phase: A: 0.1M Ammonium Dihydrogen Orthophosphate Buffer, pH4.5
 B: Acetonitrile
Gradient:

Time:	0	4	10	15
B%:	5	5	40	40

Flow Rate: 1.0mL/min
Detector: UV at 254nm

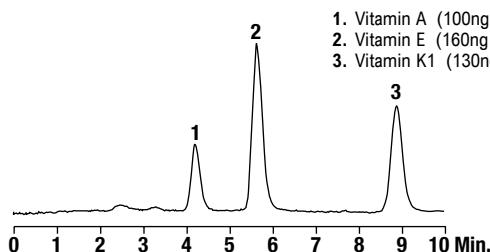
Fat-Soluble Vitamins and Tocopherols

CHROM
9390

1. Vitamin A
2. Δ -Tocopherol
3. γ -Tocopherol
4. α -Tocopherol (Vitamin E)
5. Vitamin D2
6. Vitamin D3
7. Vitamin K

Column: Alltech® Prevail™ C18, 5 μ m, 150 x 4.6mm (Part No. 99208)
Mobile Phase: Acetonitrile:Methanol (75:25)
Flow Rate: 1.5mL/min
Detector: UV at 220nm

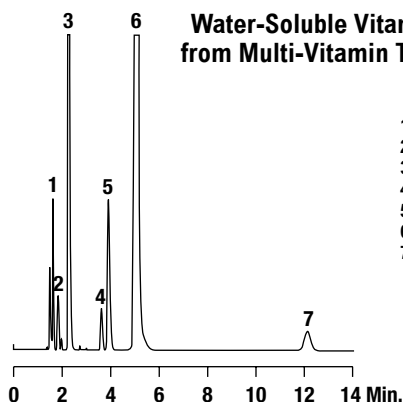
Fat-Soluble Vitamins

CHROM
10279

1. Vitamin A (100ng on column)
2. Vitamin E (160ng on column)
3. Vitamin K1 (130ng on column)

Column: Alltech® Alltima™ C18, 3 μ m, 150 x 1mm (Part No. 88384)
Mobile Phase: Methanol:Chloroform (90:10)
Flow Rate: 0.05mL/min
Detector: ELSD

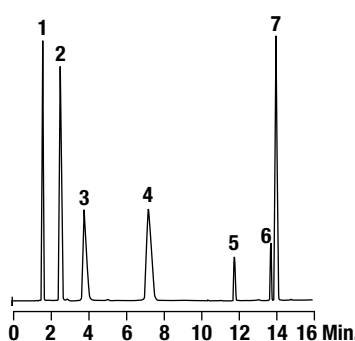
Water-Soluble Vitamins from Multi-Vitamin Tablet

CHROM
9456

1. Thiamine
2. Ascorbic Acid
3. Unknown
4. Fumaric Acid
5. Pyridoxine
6. Niacinamide
7. Pantothenic Acid

Column: Alltech® Prevail™ C18, 5 μ m, 150 x 4.6mm (Part No. 99208)
Mobile Phase: 0.025M KH₂PO₄, pH3.0:Acetonitrile (97:3)
Flow Rate: 1.0mL/min
Detector: UV at 212

Water-Soluble Vitamins

CHROM
8154

1. Ascorbic Acid
2. Nicotinic Acid
3. Pyridoxamine
4. Niacinamide
5. Folic Acid
6. Riboflavin
7. Vitamin B12

Column: Alltech® Platinum™ C18, 5 μ m, 150 x 4.6mm (Part No. 32043)
Mobile Phase: A: 0.1M Ammonium Phosphate, pH4.5
 B: Acetonitrile
Gradient:

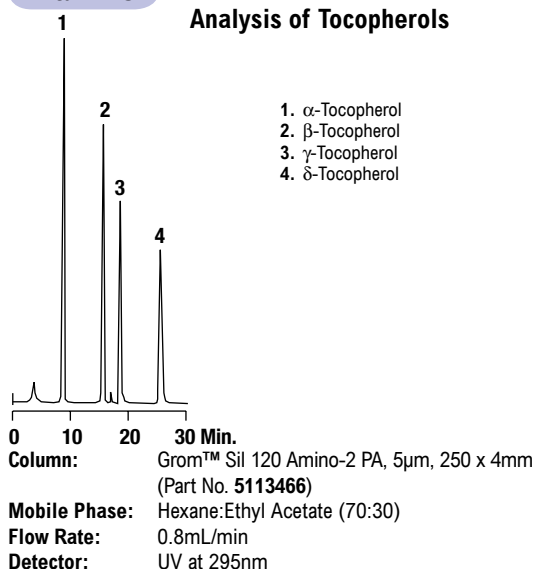
Time:	0	4	15	18
B%:	5	5	40	40

Flow Rate: 1.0mL/min
Detector: UV at 254nm

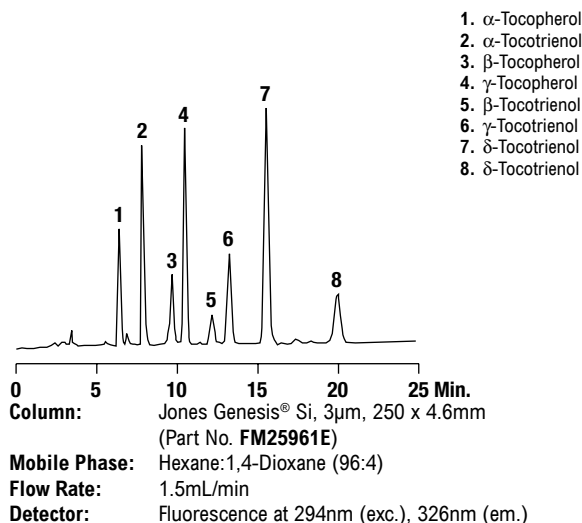
hplc applications

Vitamins

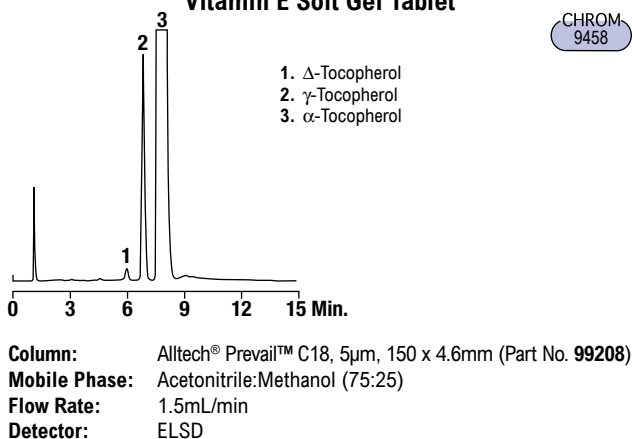
Analysis of Tocopherols



Vitamin E

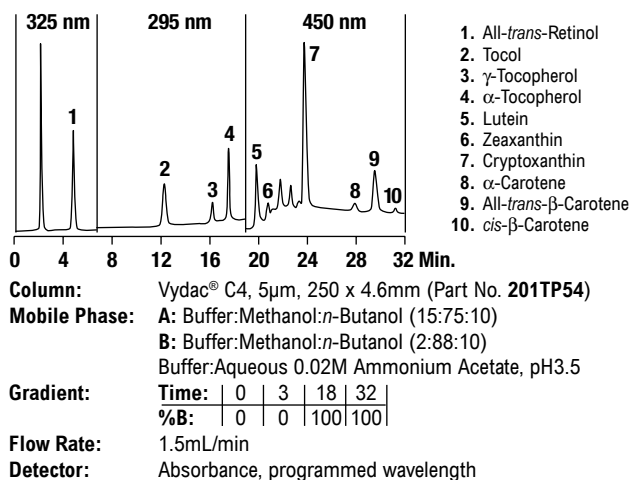


Vitamin E Soft Gel Tablet



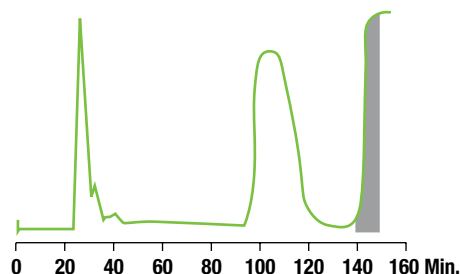
CHROM
9458

Determination of Retinol, α -Tocopherol, and β -Carotene in Serum



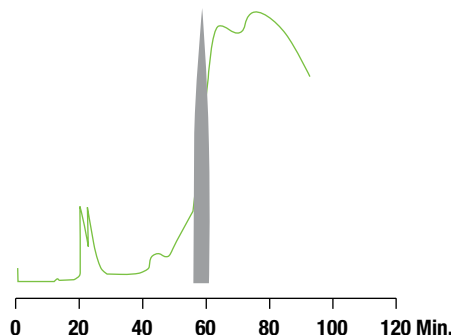
Preparative Purification of Tocopherol

First Step Separation of Tocopherol β -Isomer

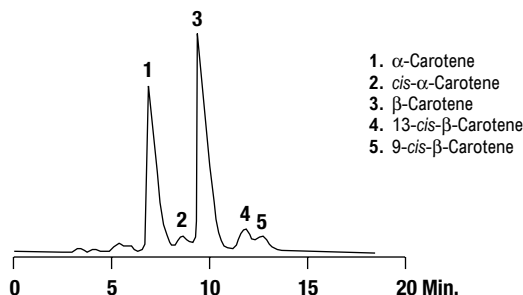


Shaded area indicates collected fraction.
Sample is 250g tocopherol isomer mixture in 1000mL hexane.
Silica: Davisil® LC60A 20-45 μ m, (Part No. 5055349)
Column: 200 x 500mm
Mobile Phase: Hexane:2.5% Tetrahydrofuran
Flow Rate: 600mL/min

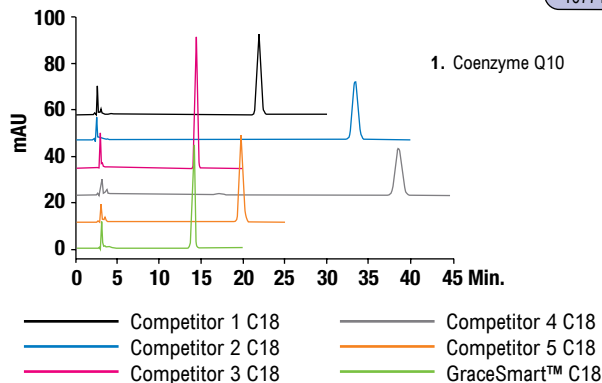
Rechromatography of β -Isomer-Enriched Tocopherol



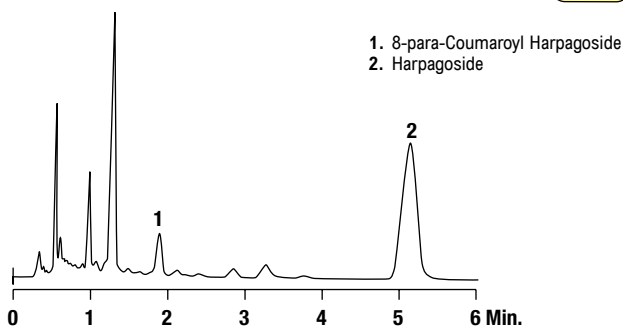
Shaded area indicates collected fractions.
Sample is pooled fraction from first step.
Silica: Davisil® LC60A 20-45 μ m, (Part No. 5055349)
Column: 50 x 500mm
Flow Rate: 50mL/min

β -Carotenes

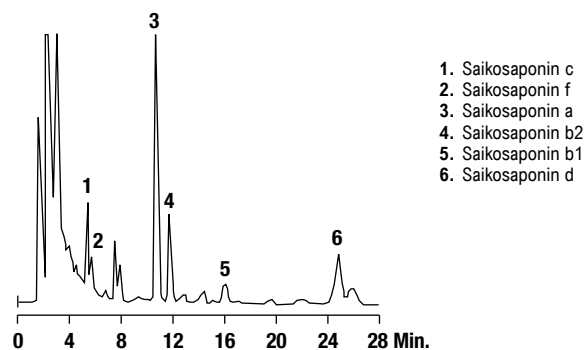
Column: Vydac® C4, 5 μ m, 250 x 4.6mm (Part No. 201TP54)
Mobile Phase: Methanol:Chloroform (94:6)

Coenzyme Q10CHROM
10771

Column: GraceSmart™ C18, 5 μ m, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Methanol:Ethanol (50:50)
Flow Rate: 1.0mL/min
Detector: UV at 275nm

Devil's Claw**Iridoid Compounds**CHROM
9191

Column: Alltech® Alltima™ C18, 3 μ m, 53 x 7mm Rocket™ (Part No. 50605)
Mobile Phase: 0.05% Trifluoroacetic Acid:Methanol:Dioxane (75:23:2)
Flow Rate: 3.0mL/min
Detector: UV at 285nm

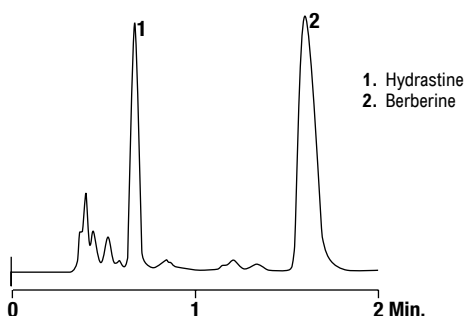
Saponins**HPLC Analysis of Saikosides**

Column: Grom™ Sil 120 ODS-3 CP, 5 μ m, 250 x 4mm
Mobile Phase: Water:Methanol:Acetonitrile (45:15:40)
Flow Rate: 0.8mL/min
Detector: UV at 210nm

hplc applications

Goldenseal Root

Alkaloids

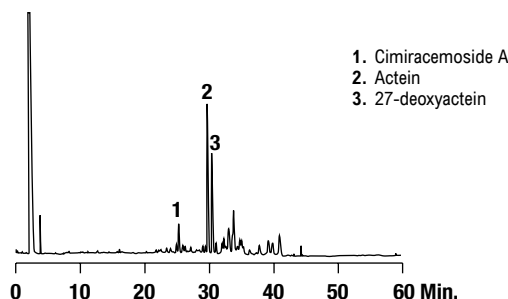


CHROM
9124

Column: Alltech® Alltima™ C18, 3µm, 53 x 7mm Rocket™ (Part No. 50605)
Mobile Phase: 0.02M KH₂PO₄, pH2.6:Methanol (52:48)
Flow Rate: 3.0mL/min
Detector: UV at 235nm

Black Cohosh

Black Cohosh Extract



CHROM
9496

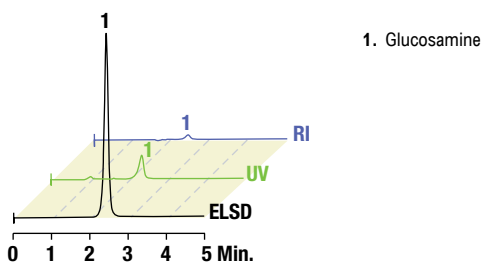
Column: Alltech® Prevail™ C18, 5µm, 250 x 4.6mm (Part No. 99210)
Mobile Phase: A: 1% Formic Acid B: Acetonitrile
Gradient:

Time:	0	60	65	67	80
%B:	20	100	100	20	20

Flow Rate: 1.0mL/min
Detector: ELSD

Glucosamine

Glucosamine

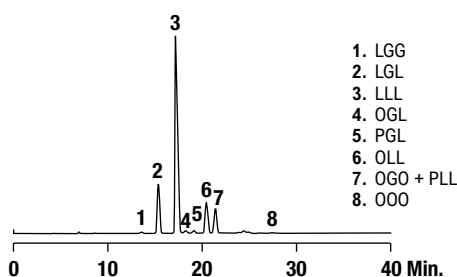


CHROM
10412
CHROM
10413
CHROM
10411

Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 150 x 4.6mm (Part No. 35102)
Mobile Phase: Acetonitrile:Water (65:35)
Flow Rate: 1.0mL/min
Detector: ELSD

Evening Primrose

Triglycerides



CHROM
10047

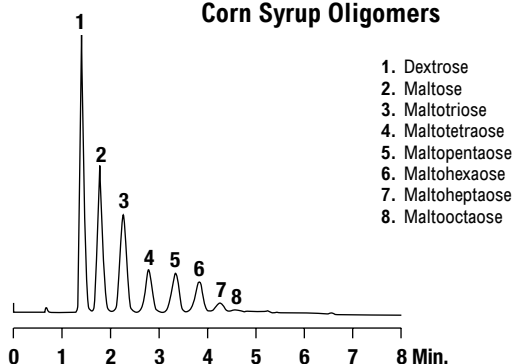
Column: Alltech® Alltima™ C18, 5µm, 250 x 4.6mm (Part No. 88056)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	40
%B:	30	50

Flow Rate: 1.0mL/min
Detector: ELSD

Carbohydrates

Corn Syrup Oligomers

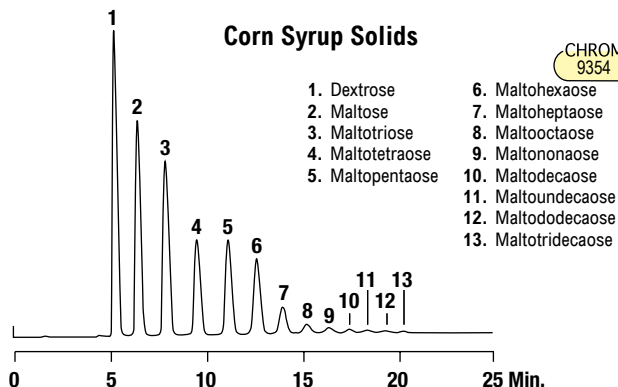
CHROM
9420

Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 53 x 7mm Rocket™ (Part No. 35104)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

Time:	0	4
%B:	32	50

Flow Rate: 2.0mL/min
Detector: ELSD

Corn Syrup Solids

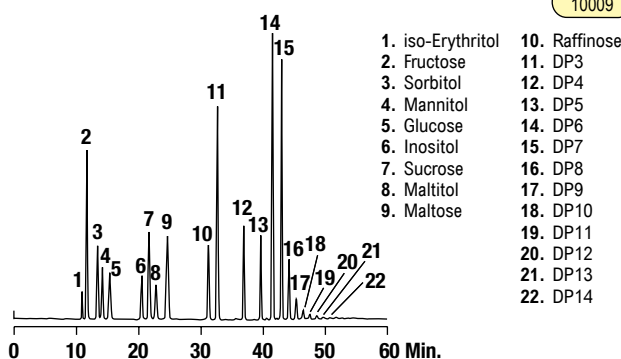
CHROM
9354

Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

Time:	0	15
%B:	35	50

Flow Rate: 1.0mL/min
Detector: ELSD

Mono-, Di-, Tri- Saccharides

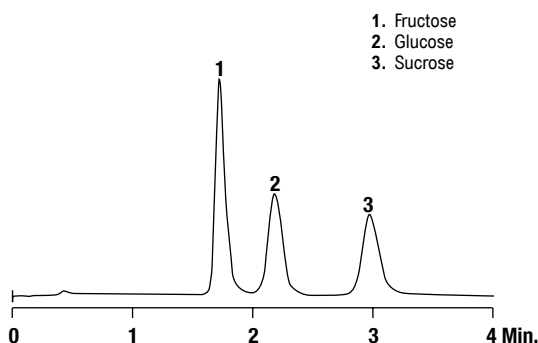
CHROM
10009

Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: 0.04% Ammonium Hydroxide in Water
Gradient:

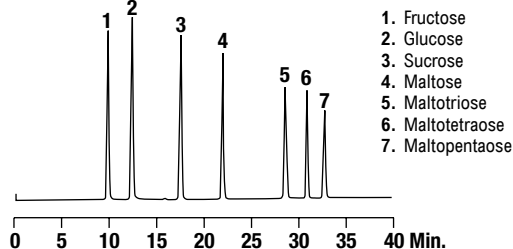
Time:	0	25	40	60
%B:	17	27	45	55

Flow Rate: 1.0mL/min
Detector: ELSD

Sugars

CHROM
10277

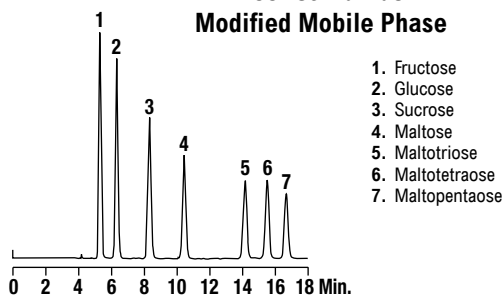
Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 53 x 7mm Rocket™ (Part No. 35104)
Mobile Phase: Acetonitrile:Water (75:25)
Flow Rate: 2.0mL/min
Column Temp: 30°C
Detector: ELSD

Beer Standards
Unmodified Mobile PhaseCHROM
9350

Column: Alltech® Prevail™ Carbohydrate ES, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

Time:	0	50
%B:	20	35

Flow Rate: 1.0mL/min
Detector: ELSD

Beer Standards
Modified Mobile PhaseCHROM
9360

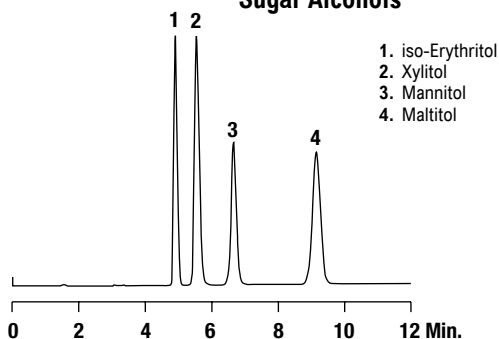
Column: Alltech® Prevail™ Carbohydrate ES, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile:Acetone (75:25)
B: Water
Gradient:

Time:	0	18
%B:	24	50

Flow Rate: 1.0mL/min
Detector: ELSD

Carbohydrates

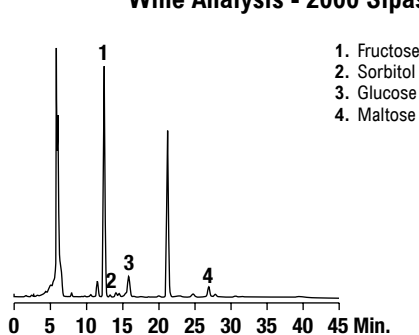
Sugar Alcohols



CHROM-9352

Column: Alltech® Prevail™ Carbohydrate ES, 250 x 4.6mm (Part No. 35101)
Mobile Phase: Acetonitrile:Water (70:30)
Flow Rate: 1.0mL/min
Detector: ELSD

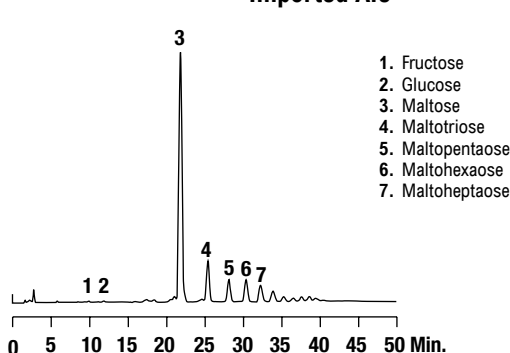
Wine Analysis - 2000 Sipaska Rosé



CHROM-9474

Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient: Time: 0 60
%B: 17 35
Flow Rate: 1.0mL/min
Detector: ELSD

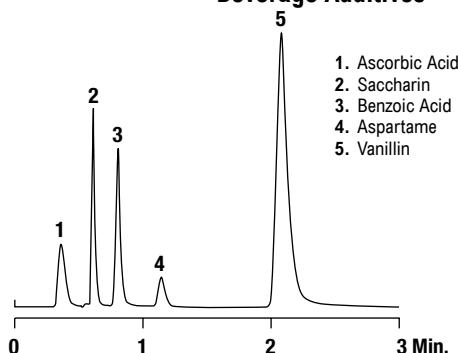
Imported Ale



CHROM-9351

Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient: Time: 0 50
%B: 20 35
Flow Rate: 1.0mL/min
Detector: ELSD

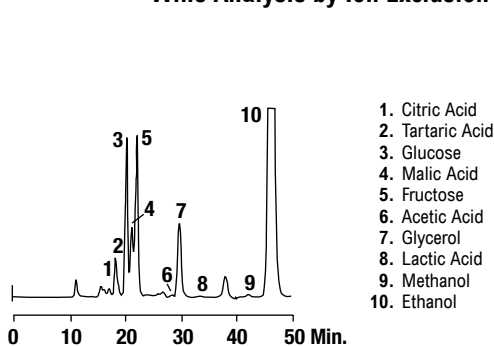
Beverage Additives



CHROM-9446

Column: Alltech® Prevail™ C18, 3µm, 50 x 2.1mm (Part No. 43818)
Mobile Phase: Acetonitrile:0.05M Ammonium Acetate, pH5.4, (20:80)
Flow Rate: 0.3mL/min
Detector: UV at 230

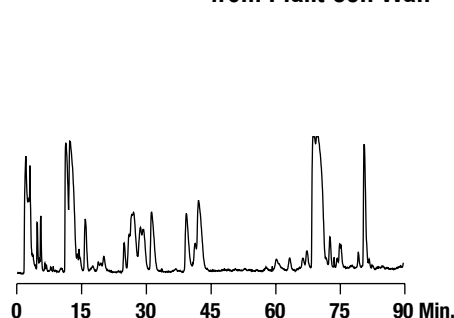
Wine Analysis by Ion Exclusion



CHROM-5411

Column: Alltech® IOA-1000, 9mm, 300 x 7.8mm (Part No. 9646)
Mobile Phase: 0.005N Sulfuric Acid
Flow Rate: 0.3mL/min
Column Temp: 60°C
Detector: RI

Partial Digest: Complex Polysaccharide from Plant Cell Wall

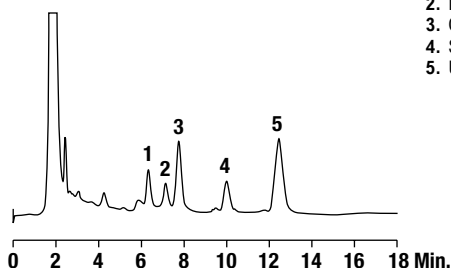


Column: Vydac® C18, 5µm, 250 x 4.6mm (Part No. 218TP54)
Gradient: 7 to 10% Methanol over 60 min., then to 25% Methanol at 90 min
Flow Rate: 1.0mL/min
Detector: ELSD

Conquistador® Tequila

CHROM
10585

1. Fructose
2. Mannitol
3. Glucose
4. Sucrose
5. Unknown

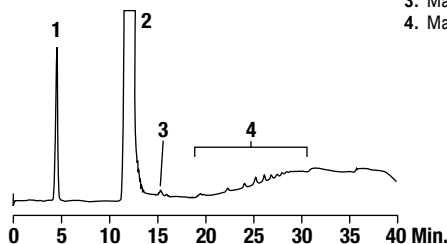


Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: Acetonitrile:Water (75:25)
Flow Rate: 1.0mL/min
Detector: ELSD

Splenda® Sweetener

CHROM
10531

1. Sucralose
2. Glucose
3. Maltose
4. Maltodextrins



Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

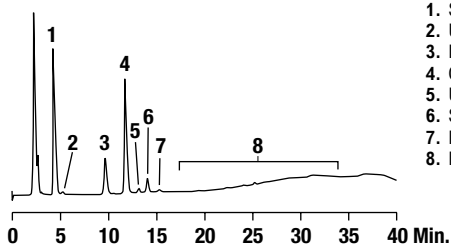
Time:	0	5	10	15	25
%B:	20	20	30	30	50

Flow Rate: 1.0mL/min
Detector: ELSD

Pepsi One® Cola

CHROM
10530

1. Sucralose
2. Unknown 1
3. Fructose
4. Glucose
5. Unknown 2
6. Sucrose
7. Maltose
8. Maltodextrins



Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

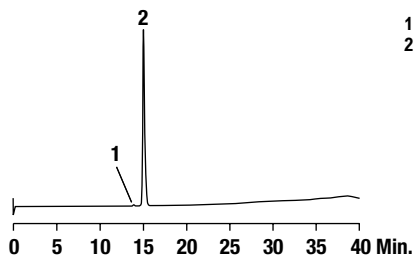
Time:	0	5	10	15	25
%B:	20	20	30	30	50

Flow Rate: 1.0mL/min
Detector: ELSD

Infant Formula

CHROM
10529

1. Sucrose
2. Lactose



Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

Time:	0	5	10	15	25
%B:	20	20	30	30	50

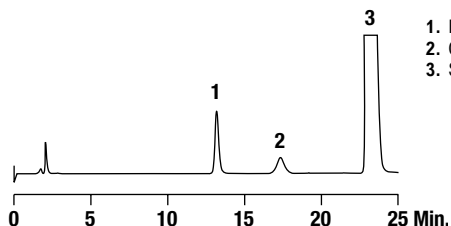
Flow Rate: 1.0mL/min
Detector: ELSD

Flavor Sample Solution

Chromatogram courtesy of Charles Stewart, Firmenich Inc.

CHROM
10579

1. Fructose
2. Glucose
3. Sucrose



Column: Alltech® Prevail™ Carbohydrate ES, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

Time:	0	30
%B:	20	29

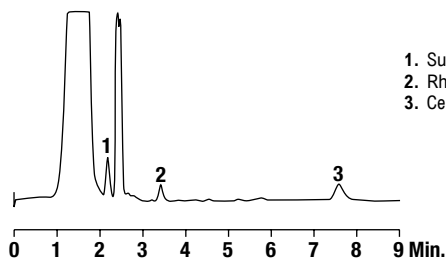
Flow Rate: 1.0mL/min
Detector: ELSD

Spiked Urine

Chromatogram courtesy of Rosemary Rose, Monash University, Dept. of Gastroenterology

CHROM
10584

1. Sucralose
2. Rhamnose
3. Cellobiose

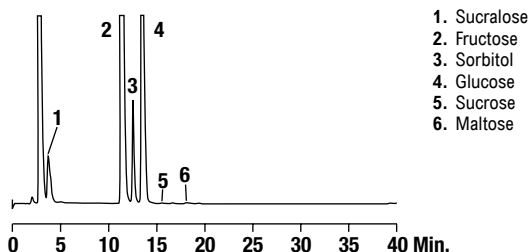


Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 150 x 4.6mm (Part No. 35102)
Mobile Phase: Acetonitrile:Water (70:30)
Flow Rate: 1.0mL/min
Detector: ELSD

Carbohydrates

Robitussin® Flu Syrup

CHROM-10557



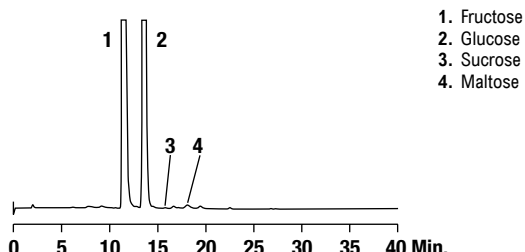
Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

Time:	0	5	10	15	25
%B:	15	15	25	25	50

Flow Rate: 1.0mL/min
Detector: ELSD

Cough Syrup

CHROM-10556



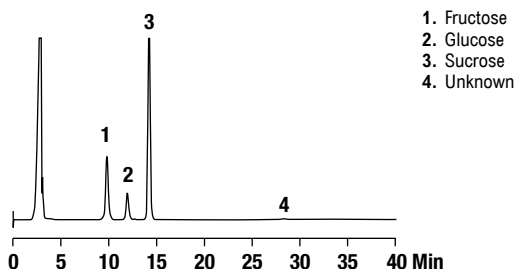
Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

Time:	0	5	10	15	25
%B:	20	20	30	30	50

Flow Rate: 1.0mL/min
Detector: ELSD

Tobacco

CHROM-10526



Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

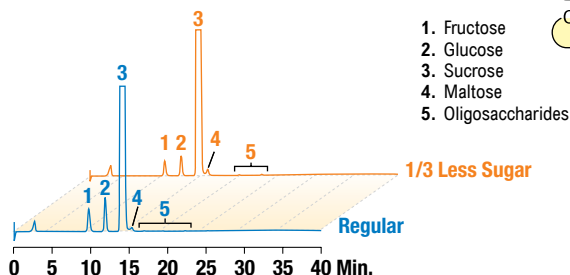
Time:	0	5	10	15	25
%B:	20	20	30	30	50

Flow Rate: 1.0mL/min
Detector: ELSD

Kellogg's Frosted Flakes® Cereal Regular vs. 1/3 less sugar

CHROM-10528

CHROM-10527

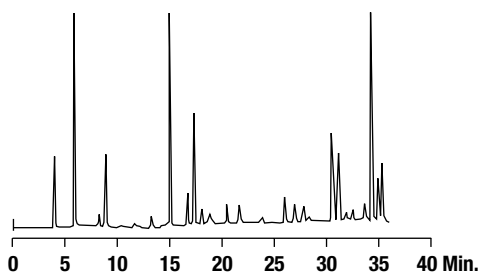


Column: Alltech® Prevail™ Carbohydrate ES, 5µm, 250 x 4.6mm (Part No. 35101)
Mobile Phase: A: Acetonitrile B: Water
Gradient:

Time:	0	5	10	15	25
%B:	20	20	30	30	50

Flow Rate: 1.0mL/min
Detector: ELSD

Rosenta Analysis



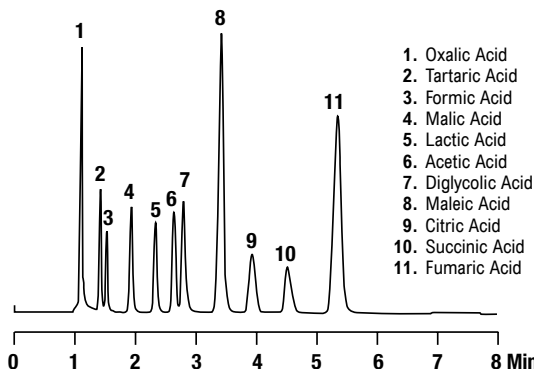
Column: Grom™ Sil 100 ODS-2 FE, 5µm, 250 x 4mm
Mobile Phase: A: Water B: Acetonitrile
Gradient:

Time:	0	30
%B:	25	100

Flow Rate: 0.8mL/min
Detector: UV at 254nm

Organic Acids

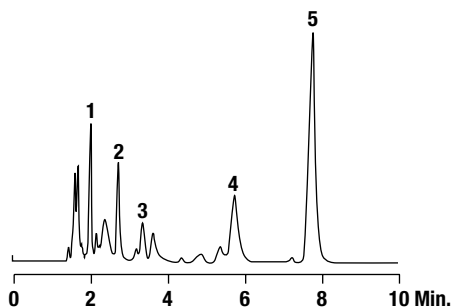
Organic Acid Mix

CHROM
9384

1. Oxalic Acid
2. Tartaric Acid
3. Formic Acid
4. Malic Acid
5. Lactic Acid
6. Acetic Acid
7. Diglycolic Acid
8. Maleic Acid
9. Citric Acid
10. Succinic Acid
11. Fumaric Acid

Column: Alltech® Prevail™ Organic Acid, 5µm, 150 x 4.6mm
(Part No. 88640)
Mobile Phase: 0.025M KH₂PO₄, pH2.5
Flow Rate: 1.5mL/min
Detector: UV at 210nm

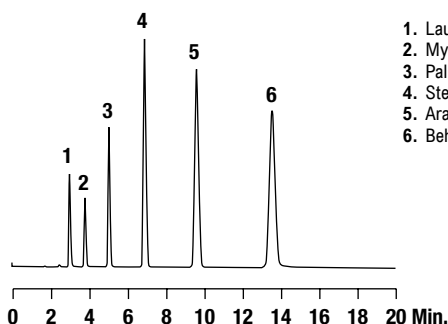
Rye Bread Extract

CHROM
9484

1. Tartaric Acid
2. Malic Acid
3. Lactic Acid
4. Citric Acid
5. Fumaric Acid

Column: Alltech® Prevail™ Organic Acid, 5µm, 150 x 4.6mm
(Part No. 88640)
Mobile Phase: 0.025M KH₂PO₄, pH2.5
Flow Rate: 1.0mL/min
Detector: UV at 210nm

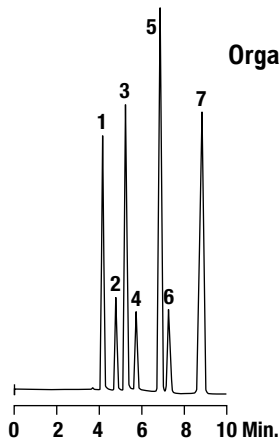
Underivatized Fatty Acids

CHROM
9539

1. Lauric Acid
2. Myristic Acid
3. Palmitic Acid
4. Stearic Acid
5. Arachidic Acid
6. Behenic Acid

Column: Alltech® Prevail™ Organic Acid, 5µm, 150 x 4.6mm
(Part No. 88640)
Mobile Phase: Acetonitrile:Methanol (75:25)
Flow Rate: 1.0mL/min
Detector: ELSD

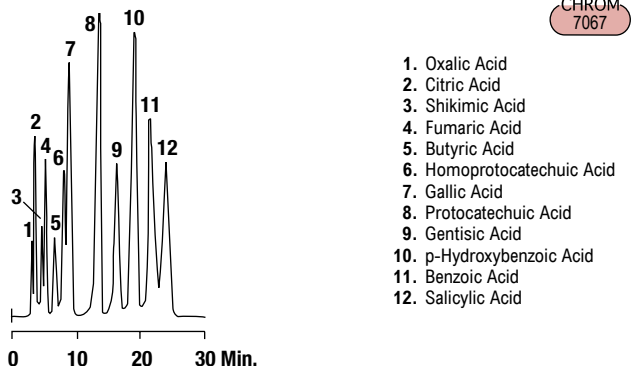
Organic Acid Mix

CHROM
8244

1. Tartaric Acid
2. Malic Acid
3. Lactic Acid
4. Diglycolic Acid
5. Maleic Acid
6. Succinic Acid
7. Fumaric Acid

Column: Alltech® Platinum™ EPS C8, 5µm, 150 x 4.6mm
(Part No. 32420)
Mobile Phase: 0.025M KH₂PO₄, pH2.5:Methanol (97:3)
Flow Rate: 0.7mL/min
Detector: UV at 220nm

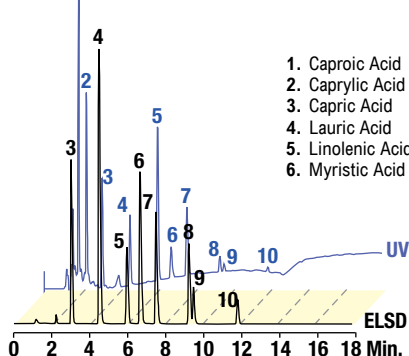
Short-Chain Aromatic Carboxylic Acids

CHROM
7067

1. Oxalic Acid
2. Citric Acid
3. Shikimic Acid
4. Fumaric Acid
5. Butyric Acid
6. Homoprotocatechuic Acid
7. Gallic Acid
8. Protocatechuic Acid
9. Gentisic Acid
10. p-Hydroxybenzoic Acid
11. Benzoic Acid
12. Salicylic Acid

Column: Alltech® OA-2000, 6.5µm, 100 x 6.5mm (Part No. 9048)
Mobile Phase: 0.01N Sulfuric Acid
Column Temp: 45°C
Flow Rate: 0.8mL/min
Detector: UV at 228nm

Fatty Acids Using UV and ELSD in Tandem

CHROM
10430

1. Caproic Acid
2. Caprylic Acid
3. Capric Acid
4. Lauric Acid
5. Linolenic Acid
6. Myristic Acid
7. Linoleic Acid
8. Palmitic Acid
9. Oleic Acid
10. Stearic Acid

Column: Alltech® Alltima™ HP C18 HiLoad, 3µm, 150 x 4.6mm
(Part No. 87686)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
B: 0.1% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	10	20
%B:	80	100	100

Flow Rate: 1.0mL/min

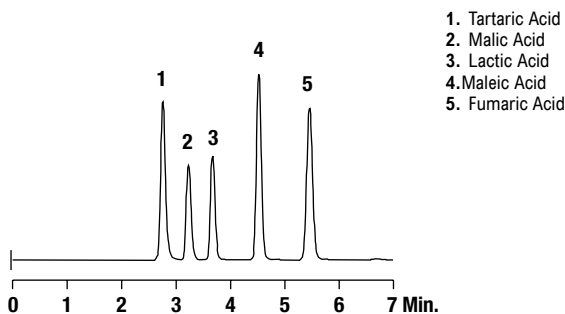
more applications

View our complete searchable chromatogram database at www.discoverysciences.com/chromdb/

Organic Acids

Organic Acids

CHROM-10705

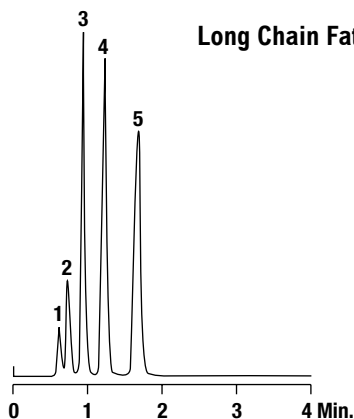


1. Tartaric Acid
2. Malic Acid
3. Lactic Acid
4. Maleic Acid
5. Fumaric Acid

Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: 0.025M KH₂PO₄, pH2.5: Methanol (97:3)
Flow Rate: 0.7mL/min
Detector: UV at 220

Long Chain Fatty Acids

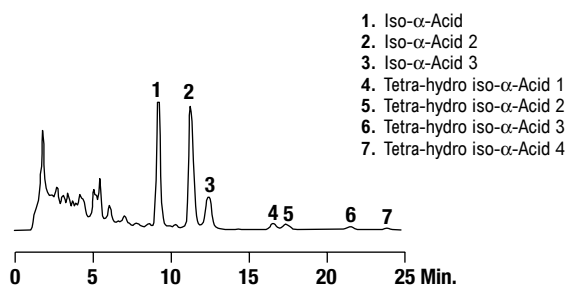
CHROM-9459



1. Capric Acid
2. Lauric Acid
3. Myristic Acid
4. Palmitic Acid
5. Stearic Acid

Column: Alltech® Prevail™ C18, 3µm, 53 x 7mm Rocket™ (Part No. 99279)
Mobile Phase: Acetonitrile: Methanol (75:25)
Flow Rate: 3.5mL/min
Detector: ELSD

Iso-α-Acids in Beer



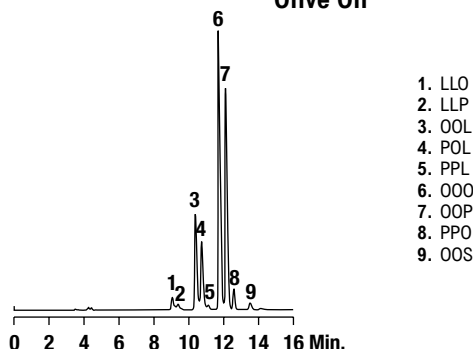
1. Iso-α-Acid
2. Iso-α-Acid 2
3. Iso-α-Acid 3
4. Tetra-hydro iso-α-Acid 1
5. Tetra-hydro iso-α-Acid 2
6. Tetra-hydro iso-α-Acid 3
7. Tetra-hydro iso-α-Acid 4

Column: Jones Genesis® C18, 4µm, 150 x 4.6mm + 10mm guard (Part No. FM15960E + FH1960-2)
Mobile Phase: Methanol: 0.1% Phosphoric Acid, 0.5mM EDTA (76:24)
Flow Rate: 1.0mL/min
Detector: UV at 260nm

Oils / Lipids

Olive Oil

CHROM-9515



1. LLO
2. LLP
3. OOL
4. POL
5. PPL
6. OOO
7. OOP
8. PPO
9. OOS

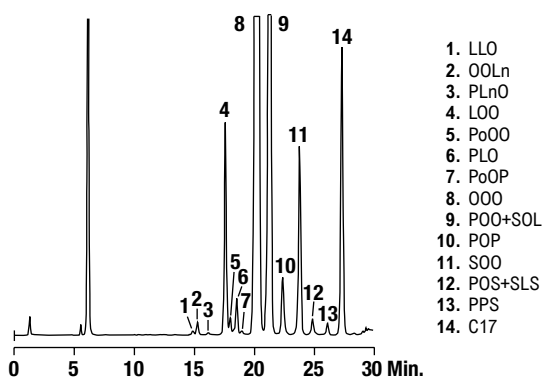
Column: Alltech® Alltima™ C18, 3µm, 150 x 4.6mm (Part No. 81387)
Mobile Phase: A: Dichloromethane B: Acetonitrile
Gradient:

Time:	0	10	18	20
%B:	70	55	70	70

Flow Rate: 1.5mL/min
Detector: ELSD

Olive Oil

CHROM-10561



1. LLO
2. OOLn
3. PLnO
4. LOO
5. PoOO
6. PLO
7. PoOP
8. OOO
9. POO+SOL
10. POP
11. SOO
12. POS+SLS
13. PPS
14. C17

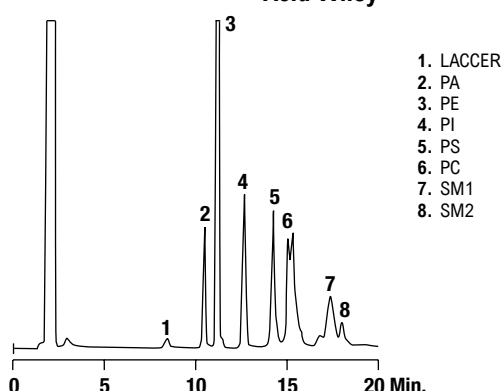
Column: Alltech® Alltima™ HP C18 Hi-Load, 3µm, 150 x 3.0mm (Part No. 87610)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	25	26	27	28
%B:	30	51	70	70	30

Flow Rate: 0.72mL/min
Detector: ELSD

Acid Whey

CHROM-10576



1. LACCR
2. PA
3. PE
4. PI
5. PS
6. PC
7. SM1
8. SM2

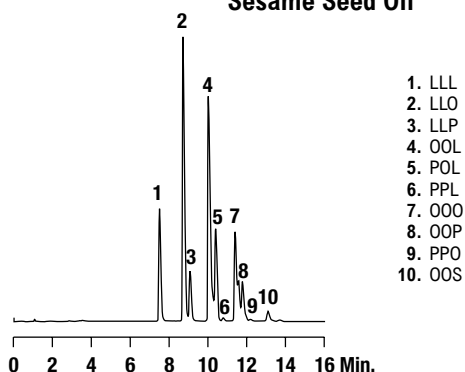
Column: Alltech® Prevail™ Silica, 3µm, 150 x 3.0mm (Part No. 99341)
Mobile Phase: A: Chloroform; B: Methanol; C: Triethylamine buffer pH3
Gradient:

Time:	0	16	17
%B:	12	60	12
%C:	0.5	12	0.5

Flow Rate: 0.5mL/min
Detector: ELSD

Oils / Lipids

Sesame Seed Oil

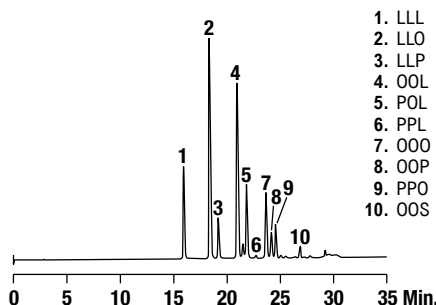
CHROM
9517

Column: Alltech® Alltima™ C18, 3µm, 150 x 4.6mm (Part No. 81387)
Mobile Phase: A: Dichloromethane B: Acetonitrile
Gradient:

Time:	0	10	18	20
%B:	70	55	70	70

Flow Rate: 1.5mL/min
Detector: ELSD

Sesame Seed Oil

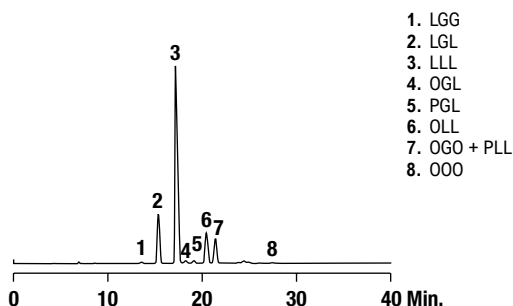
CHROM
10581

Column: Alltima™ HP C18 Hi-Load, 5µm, 250 x 4.6mm (Part No. 87698)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	25	26	27	28
%B:	30	51	70	70	30

Flow Rate: 1.0mL/min
Detector: ELSD

Evening Primrose Oil

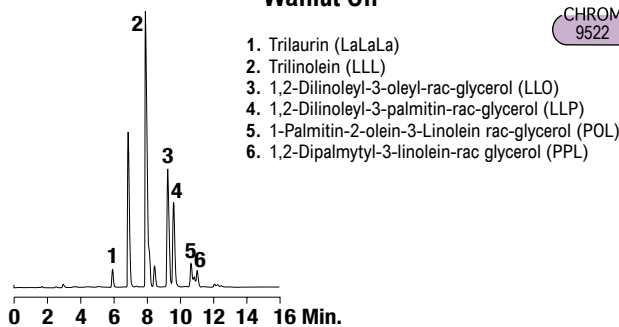
CHROM
10047

Column: Alltech® Alltima™ C18, 5µm, 250 x 4.6mm (Part No. 88056)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	40
%B:	30	50

Flow Rate: 1.0mL/min
Detector: ELSD

Walnut Oil

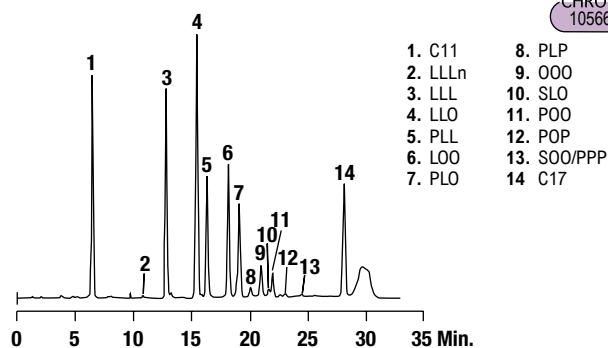
CHROM
9522

Column: Alltech® Alltima™ C18, 3µm, 150 x 4.6mm (Part No. 81387)
Mobile Phase: A: Dichloromethane B: Acetonitrile
Gradient:

Time:	0	10	18	20
%B:	70	55	70	70

Flow Rate: 1.5mL/min
Detector: ELSD

Corn Oil

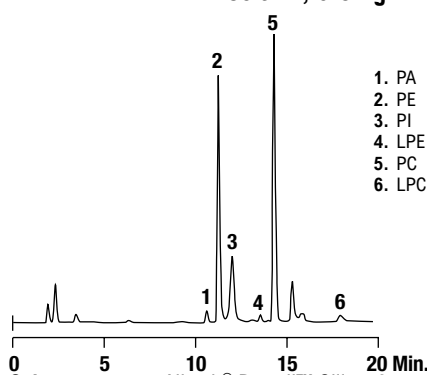
CHROM
10566

Column: Alltech® Alltima™ HP C18 Hi-Load, 3µm, 150 x 3.0mm (Part No. 87610)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	25	26	27	28
%B:	30	51	70	70	30

Flow Rate: 0.72mL/min
Detector: ELSD

Lecithin, 0.5mg/mL

CHROM
10562

Column: Alltech® Prevail™ Silica, 3µm, 150 x 3.0mm (Part No. 99341)
Mobile Phase: A: Chloroform B: Methanol C: Triethylamine buffer pH3
Gradient:

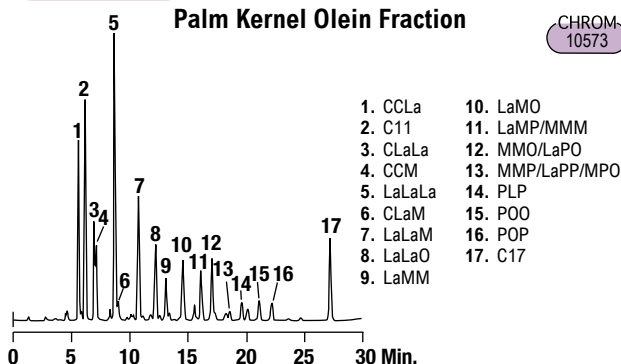
Time:	0	16	17
%B:	12	60	12
%C:	0.5	12	0.5

Flow Rate: 0.5mL/min
Detector: ELSD

Oils / Lipids

Palm Kernel Olein Fraction

CHROM-10573



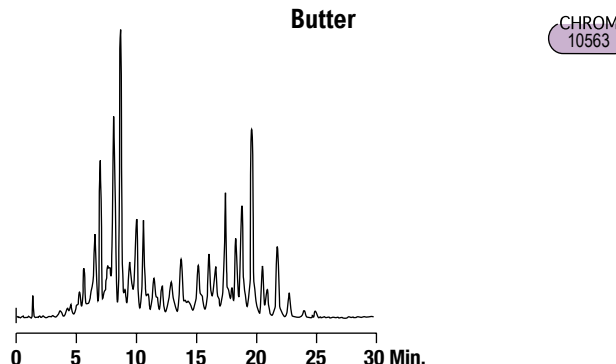
Column: Alltech® Alltima™ HP C18 Hi-Load, 3µm, 150 x 3.0mm (Part No. 87610)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	25	26	27	28
%B:	30	51	70	70	30

Flow Rate: 0.72mL/min
Detector: ELSD

Butter

CHROM-10563



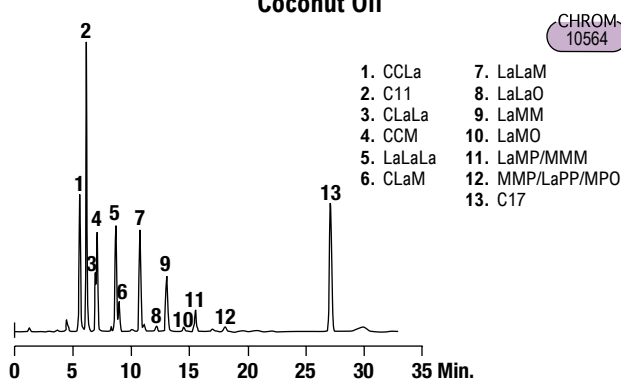
Column: Alltech® Alltima™ HP C18 Hi-Load, 3µm, 150 x 3.0mm (Part No. 87610)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	25	26	27	28
%B:	30	51	70	70	30

Flow Rate: 0.72mL/min
Detector: ELSD

Coconut Oil

CHROM-10564



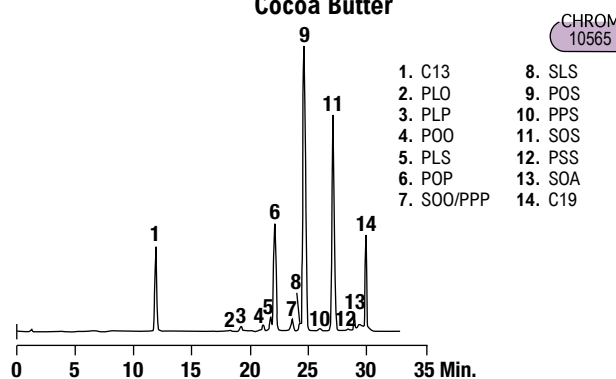
Column: Alltech® Alltima™ HP C18 Hi-Load, 3µm, 150 x 3.0mm (Part No. 87610)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	25	26	27	28
%B:	30	51	70	70	30

Flow Rate: 0.72mL/min
Detector: ELSD

Cocoa Butter

CHROM-10565



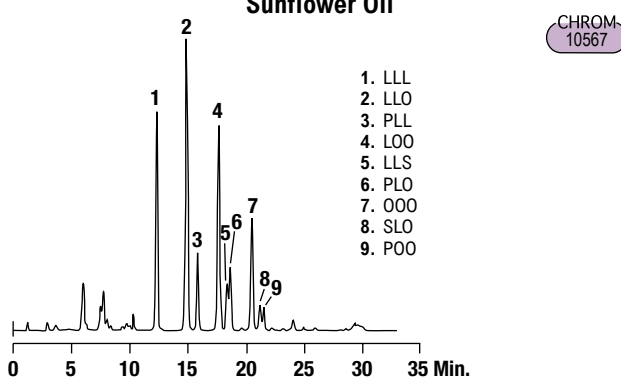
Column: Alltech® Alltima™ HP C18 Hi-Load, 3µm, 150 x 3.0mm (Part No. 87610)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	25	26	27	28
%B:	30	51	70	70	30

Flow Rate: 0.72mL/min
Detector: ELSD

Sunflower Oil

CHROM-10567



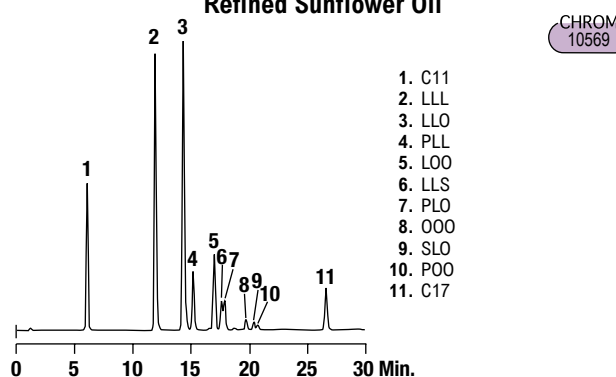
Column: Alltech® Alltima™ HP C18 Hi-Load, 3µm, 150 x 3.0mm (Part No. 87610)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	25	26	27	28
%B:	30	51	70	70	30

Flow Rate: 0.72mL/min
Detector: ELSD

Refined Sunflower Oil

CHROM-10569

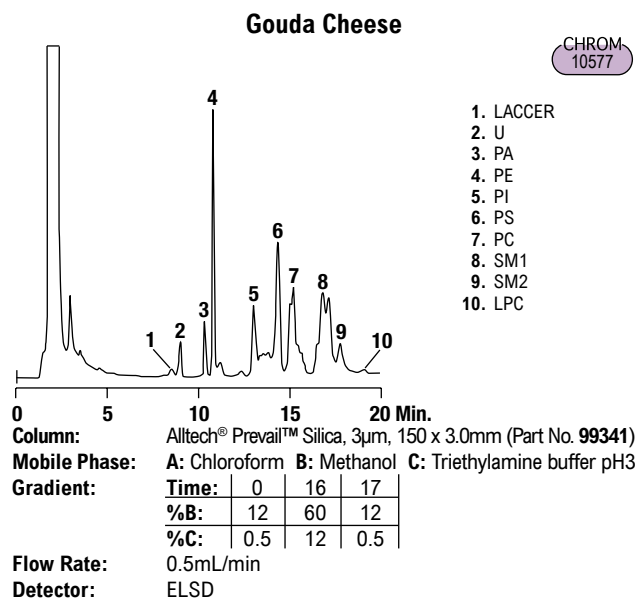
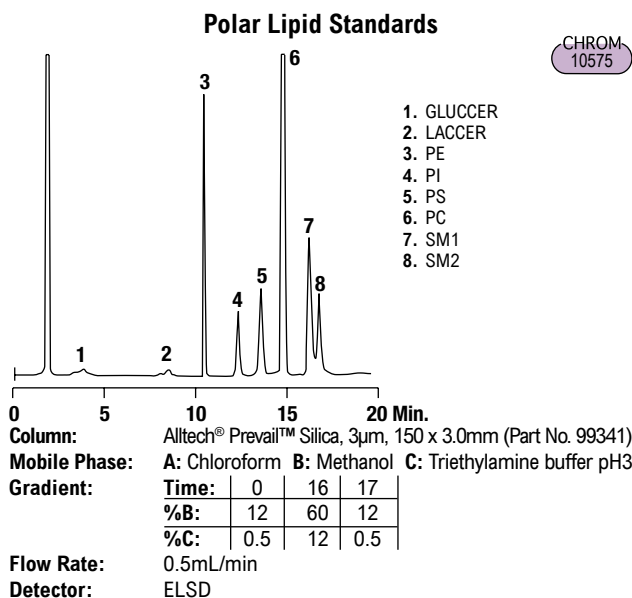
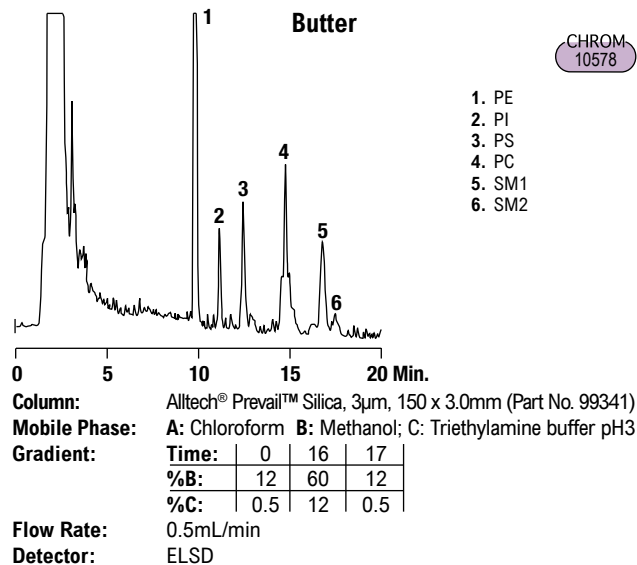
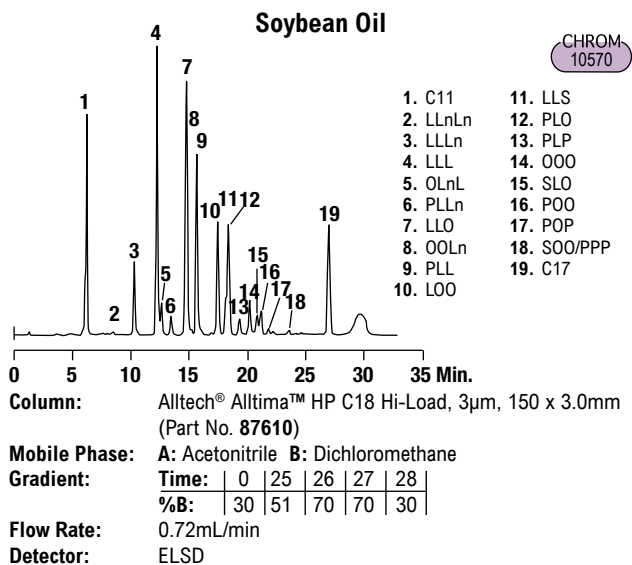
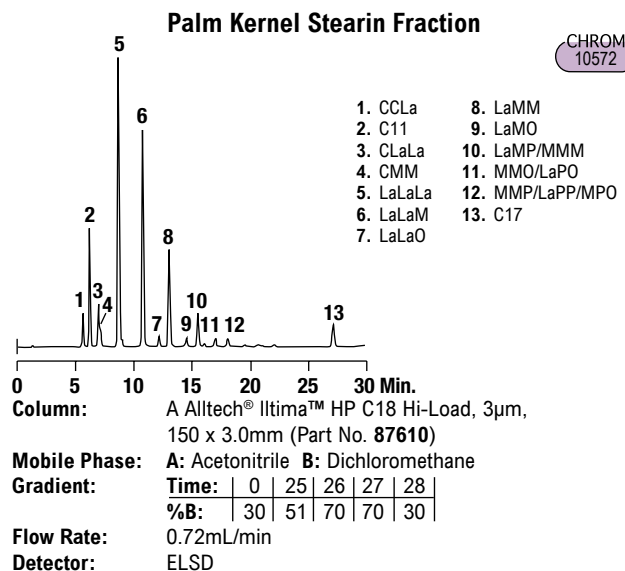
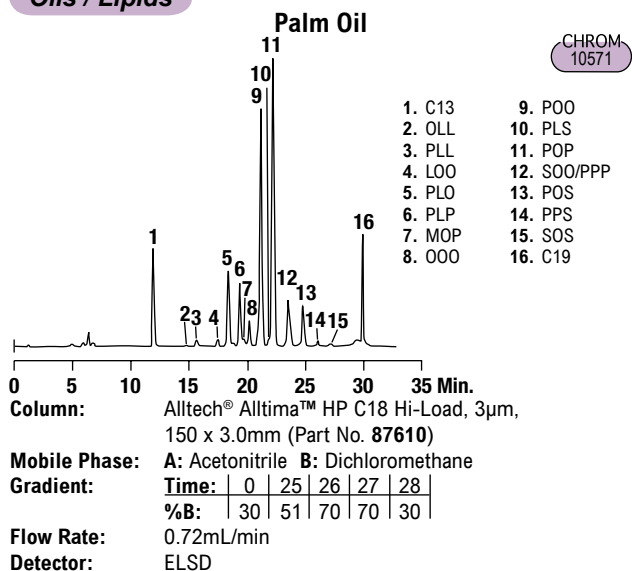


Column: Alltech® Alltima™ HP C18 Hi-Load, 3µm, 150 x 3.0mm (Part No. 87610)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

Time:	0	25	26	27	28
%B:	30	51	70	70	30

Flow Rate: 0.72mL/min
Detector: ELSD

Oils / Lipids

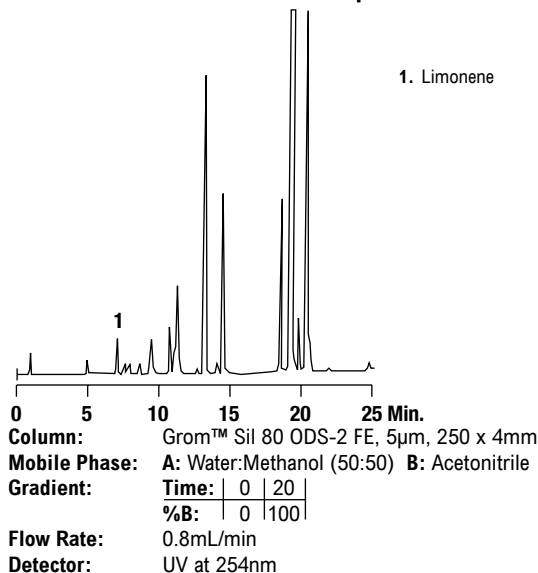


more applications

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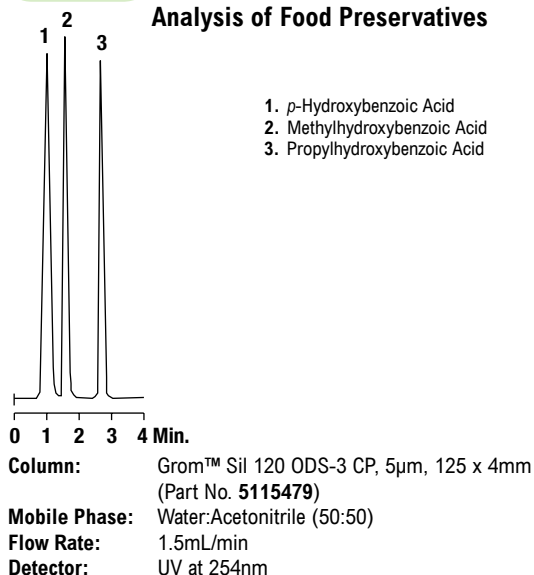
Oils / Lipids

Limonene in Grapefruit Oil

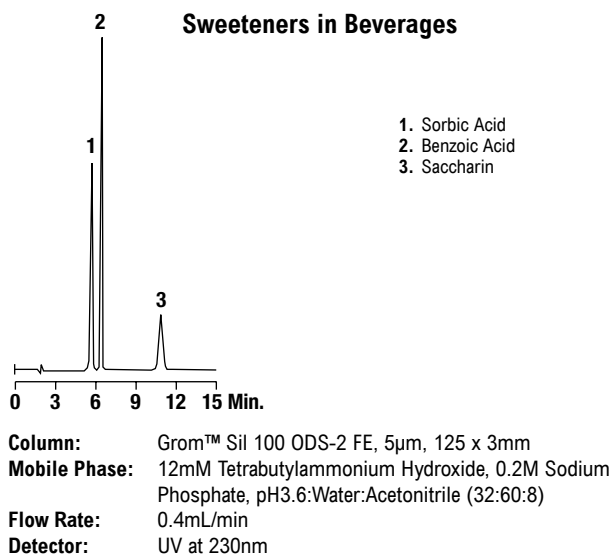


Additives

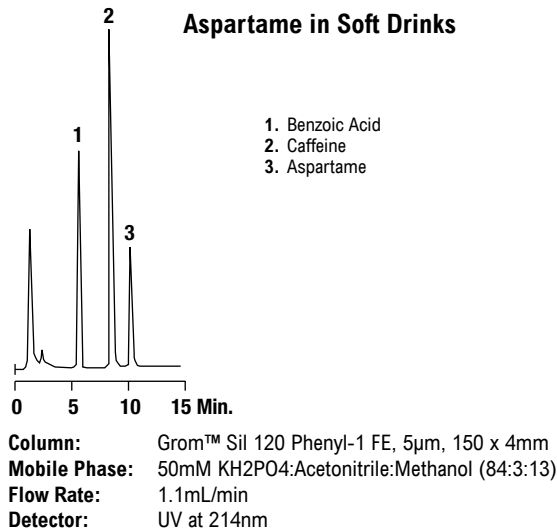
Analysis of Food Preservatives



Sweeteners in Beverages

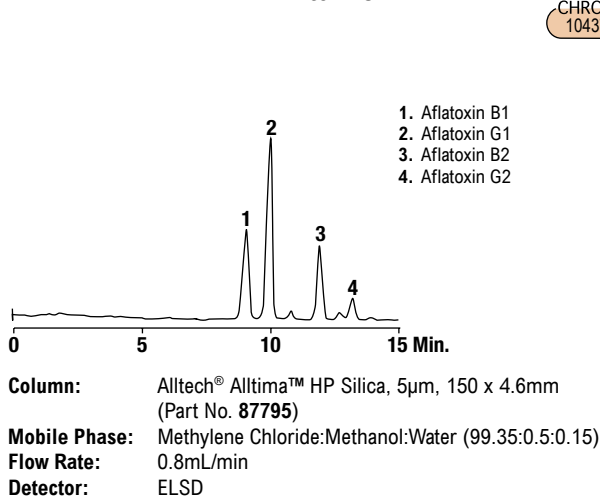


Aspartame in Soft Drinks



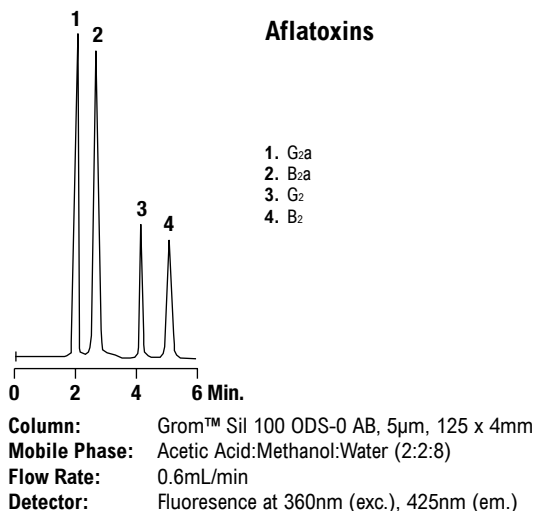
Aflatoxins

Aflatoxins



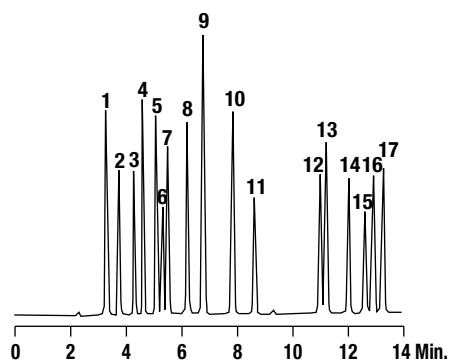
CHROM
10437

Aflatoxins



Proteins & Peptides/Reversed-Phase

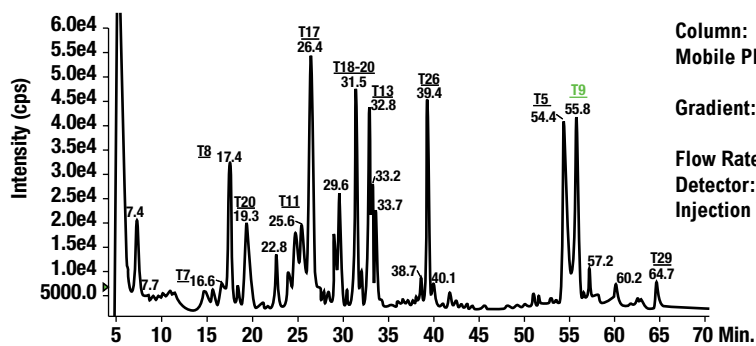
PTH Amino Acids



- | | |
|-------------|---------|
| 1. His | 10. Ala |
| 2. Cys Acid | 11. Tyr |
| 3. Arg | 12. Met |
| 4. Asp | 13. Pro |
| 5. Ser | 14. Trp |
| 6. Gln | 15. Phe |
| 7. Thr | 16. Ile |
| 8. Gly | 17. Leu |
| 9. Cys | |

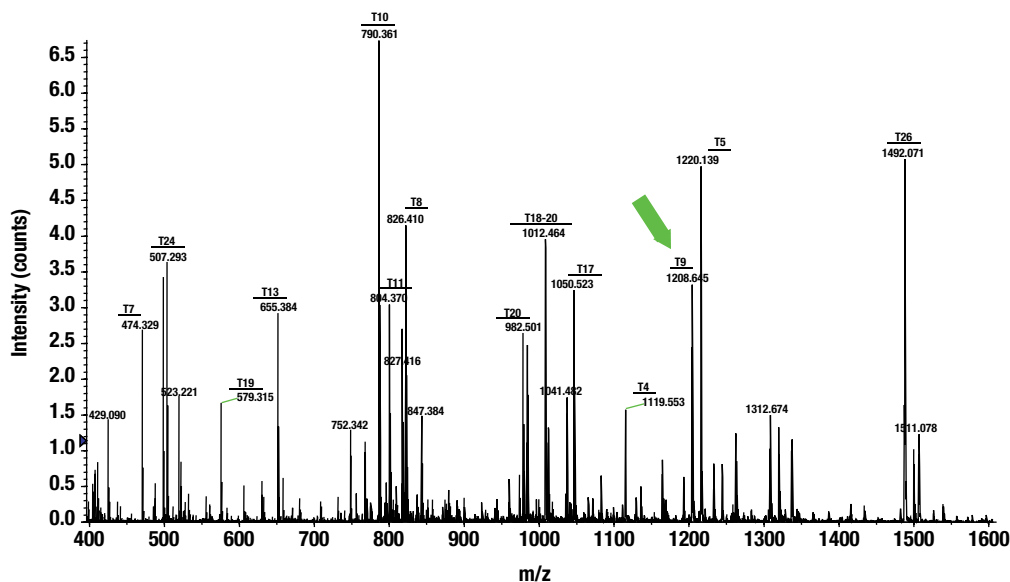
Column: Vydac® Denali®, 5µm, 150 x 4.6mm (Part No. 238DE5415)
Mobile Phase: A: Acetonitrile:25mM Potassium Phosphate, pH3.3 (20:80)
 B: Acetonitrile:25mM Potassium Phosphate, pH3.3 (80:20)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

TIC of Tryptic Digest of Green Fluorescent Protein (GFP): 150pmol Load on 1mm i.d.



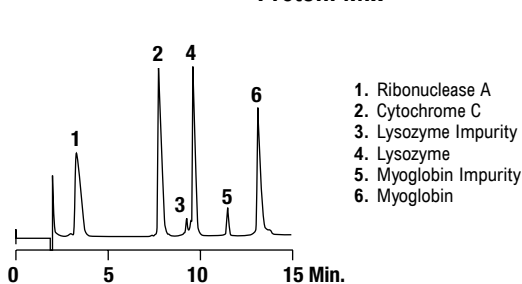
Column: Vydac®, 250 x 1mm (Part No. 238EV51)
Mobile Phase: A: Acetonitrile:0.05% Trifluoroacetic Acid (2:98)
 B: Acetonitrile:0.05% Trifluoroacetic Acid (90:10)
Gradient: Time: 0 | 60 |
 %B: 5 | 65 |
Flow Rate: 50µL/min
Detector: ms: ABI QSTAR
Injection Volume: 25µL GFP digest

Mass Spectrum of Tryptic Digest of GFP



Proteins & Peptides/Reversed-Phase

Protein Mix

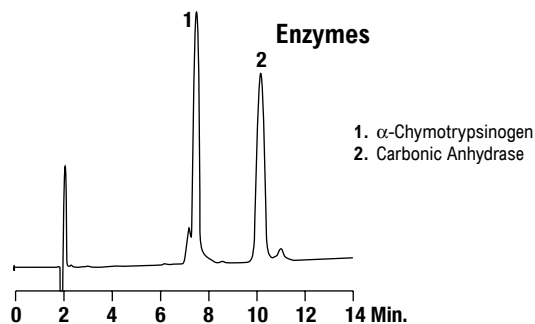


Column: Alltech® ProSphere™ C4, 300Å, 5µm, 150 x 4.6mm (Part No. 33989)
Mobile Phase: A: 0.15% Trifluoroacetic Acid
 B: 0.13% Trifluoroacetic Acid in Acetonitrile:Water (95:5)
Gradient:

Time:	0	15
%B:	30	60

Flow Rate: 1.0mL/min
Detector: UV at 220nm

Enzymes

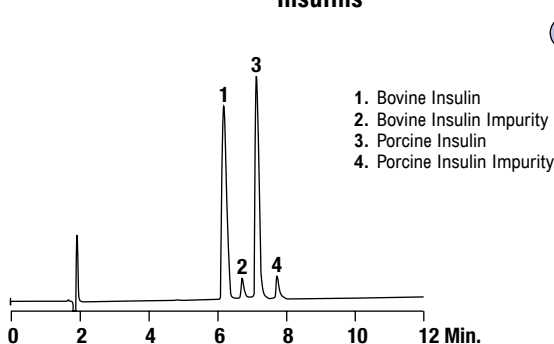


Column: Alltech® ProSphere™ C4, 300Å, 5µm, 150 x 4.6mm (Part No. 33989)
Mobile Phase: A: 0.15% Trifluoroacetic Acid in Water
 B: 0.13% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	15
%B:	40	55

Flow Rate: 1.0mL/min
Detector: UV at 220nm

Insulins

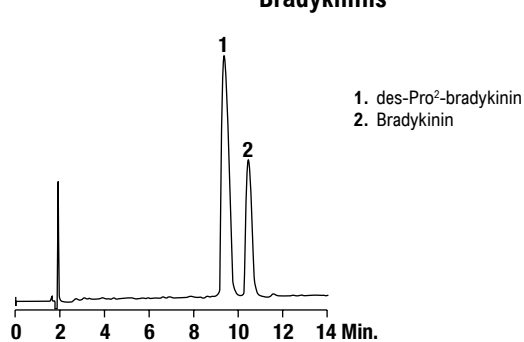


Column: Alltech® ProSphere™ C18, 300Å, 5µm, 150 x 4.6mm (Part No. 32969)
Mobile Phase: A: 0.13% Trifluoroacetic Acid in Water
 B: 0.10% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	12
%B:	28	38

Flow Rate: 1.0mL/min
Detector: UV at 220nm

Bradykinins



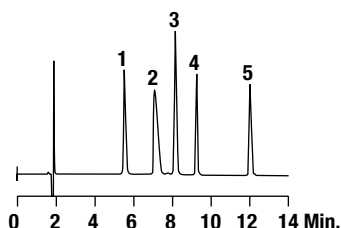
Column: Alltech® ProSphere™ C18, 300Å, 5µm, 150 x 4.6mm (Part No. 32969)
Mobile Phase: A: 0.15% Trifluoroacetic Acid in Water
 B: 0.13% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	15
%B:	15	25

Flow Rate: 1.0mL/min
Detector: UV at 205nm

Proteins & Peptides/Reversed-Phase

Bioactive Peptides

CHROM
8502

1. Methionine Enkephalin
2. Bradykinin
3. Leucine Enkephalin
4. Physalaemin
5. Substance P

Column: Alltech® ProSphere™ C18, 300Å, 5µm, 150 x 4.6mm
(Part No. 32969)

Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
B: 0.085% Trifluoroacetic Acid in Acetonitrile:Water (95:5)

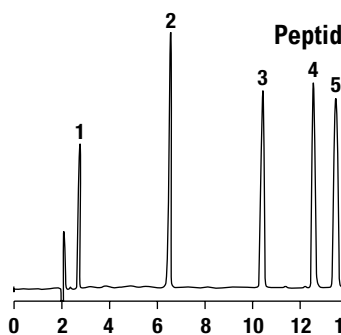
Gradient:

Time:	0	20
%B:	20	50

Flow Rate: 1.0mL/min

Detector: UV at 220nm

Peptides

CHROM
9066

1. GLY-TYR
2. VAL-TYR-VAL
3. Methionine Enkephalin
4. Leucine Enkephalin
5. Angiotensin II

Column: Alltech® ProSphere™ C18, 300Å, 5µm, 150 x 4.6mm
(Part No. 32969)

Mobile Phase: A: 0.15% Trifluoroacetic Acid in Water
B: 0.13% Trifluoroacetic Acid in Acetonitrile

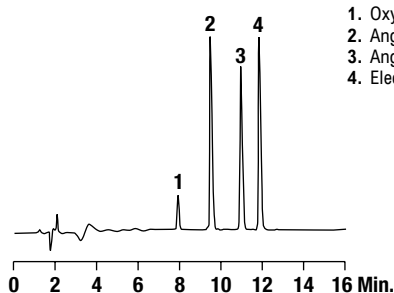
Gradient:

Time:	0	15
%B:	10	30

Flow Rate: 1.0mL/min

Detector: UV at 220nm

Peptide Mix

CHROM
10199

1. Oxytocin
2. Angiotensin II
3. Angiotensin I
4. Eledosin

Column: Alltech® ProSphere™ C18, 100Å, 5µm, 250 x 4.6mm
(Part No. 35087)

Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
B: 0.1% Trifluoroacetic Acid in Acetonitrile:Water (90:10)

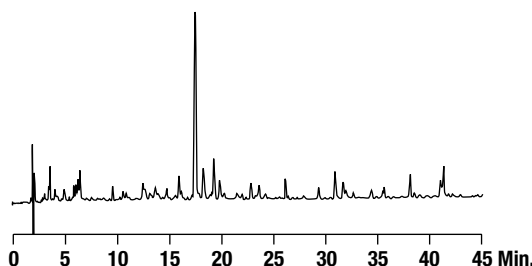
Gradient:

Time:	0	20
%B:	20	50

Flow Rate: 1.0mL/min

Detector: UV at 220nm

β-Lactoglobulin A Tryptic Digest

CHROM
9092

Column: Alltech® ProSphere™ C18, 300Å, 5µm, 150 x 4.6mm
(Part No. 32969)

Mobile Phase: A: 0.15% Trifluoroacetic Acid in Water
B: 0.13% Trifluoroacetic Acid in Acetonitrile

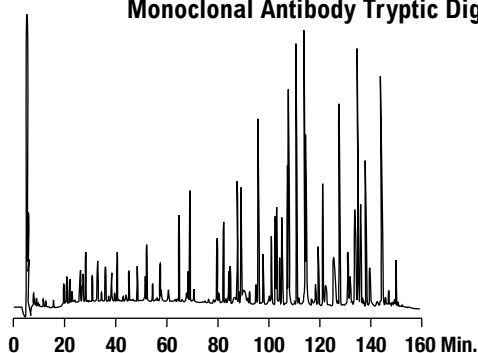
Gradient:

Time:	0	45
%B:	5	30

Flow Rate: 1.0mL/min

Detector: UV at 220nm

Monoclonal Antibody Tryptic Digest

CHROM
10213

Column: Alltech® ProSphere™ C18 100Å, 5µm, 250 x 4.6mm
(Part No. 35087)

Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
B: 0.08% Trifluoroacetic Acid in Acetonitrile

Gradient:

Time:	0	160
%B:	0	45

Flow Rate: 0.5mL/min

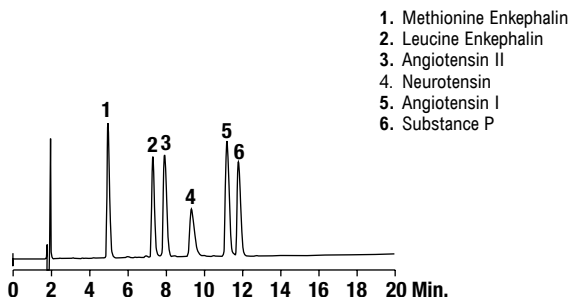
Detector: UV at 220nm

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Proteins & Peptides/Reversed-Phase

Peptide Mix on 300Å

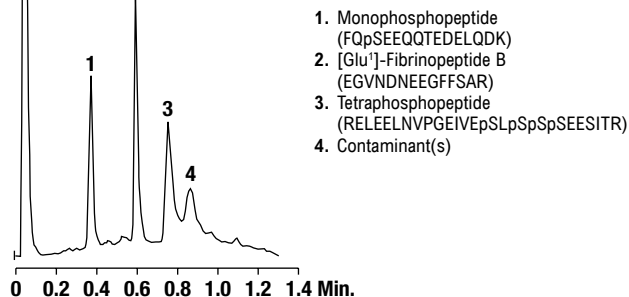
CHROM
10363


Column: Alltech® ProSphere™ C18, 300Å, 5µm, 150 x 4.6mm (Part No. 32969)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.08% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	20
%B:	20	40

Flow Rate: 1.0mL/min
Detector: UV at 220nm

Phosphopeptides and Fibrinopeptide

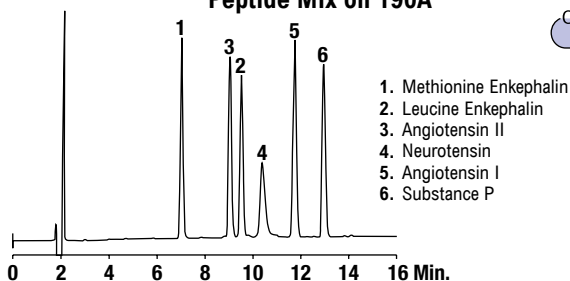


Column: Vydac® ProZap™ C18, 2.1 x 10mm
HPLC System: HPG binary pump
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.085% Trifluoroacetic Acid in Acetonitrile:Water (80:20)
Gradient:

Time:	0.0	1.0	1.1	1.3	1.4
%B:	12	60	80	80	12

Flow Rate: 0.8mL/min
Detector: UV at 215nm

Peptide Mix on 190Å

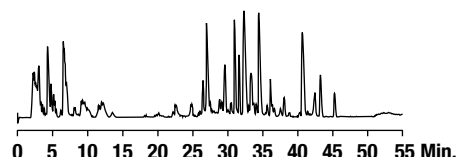
CHROM
10369


Column: Alltech® Alltima™ HP C18, 190Å, 5µm, 250 x 4.6mm (Part No. 87679)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.08% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	20
%B:	20	40

Flow Rate: 1.0mL/min
Detector: UV at 220nm

BSA Tryptic Digest

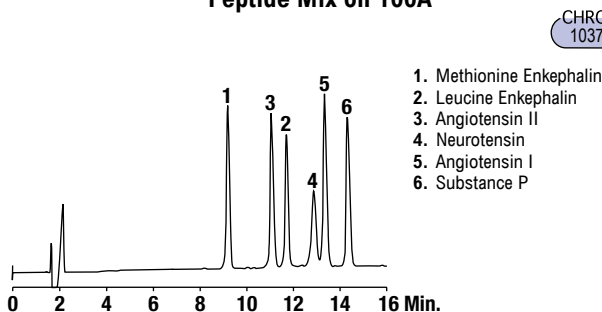
CHROM
10582


Column: Vydac® 218MS C18, 5µm, 150 x 0.075mm (Part No. 218MS5.07515)
Mobile Phase: A: Water with 0.1% Formic Acid:Acetonitrile (95:5)
 B: Water with 0.1% Formic Acid:Acetonitrile (20:80)
Gradient:

Time:	0	5	50	60
%B:	0	0	50	100

Flow Rate: 0.25µL/min

Peptide Mix on 100Å

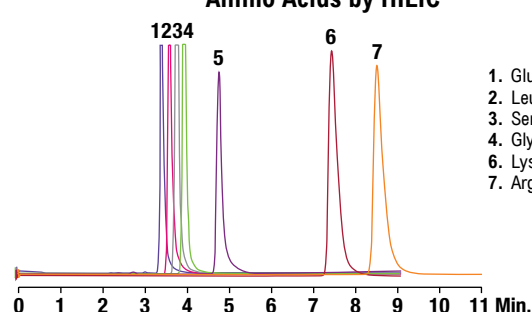
CHROM
10370


Column: Alltech® ProSphere™ C18, 100Å, 5µm, 250 x 4.6mm (Part No. 35091)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.08% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	20
%B:	20	40

Flow Rate: 1.0mL/min
Detector: UV at 220nm

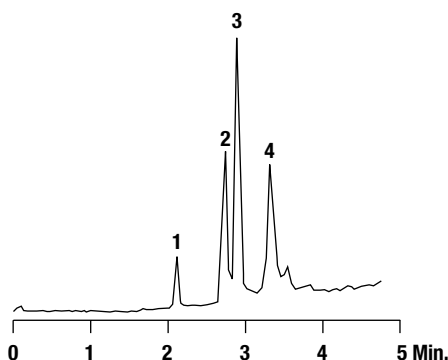
Amino Acids by HILIC

CHROM
10582


Column: Alltech® Alltima™ HP HILIC, 150 x 4.6mm
Mobile Phase: Acetonitrile:10mM Ammonium Acetate with 0.2% Acetic Acid (70:30)
Flow Rate: 0.75mL/min
Detector: ELSD

Proteins & Peptides/Reversed-Phase

LC-MS of Proteins



Column: Vydac® ProZap™ C18, 2.1 x 10mm
Mobile Phase: A: 0.2% Formic Acid, 0.01% Trifluoroacetic Acid in Acetonitrile:Water (5:95)
 B: 0.2% Formic Acid, 0.01% Trifluoroacetic Acid in Acetonitrile:Water (80:20)
Gradient:

Time:	0	4.0	4.5	4.7
%B:	20	90	90	20

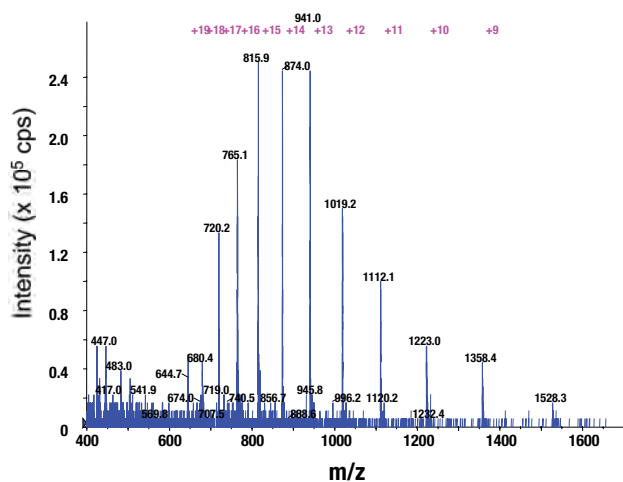
Flow Rate: 0.4mL/min
Detector: AB/MDS Sciex Q TRAP® MS. EMS scan 400-1700 amu;
 scan rate = 1000 amu/s; ion spray voltage = 5000 V; LIT fill time = 50 ms;
 Q3 entry barrier = 8V; declustering potential = 20; collision energy = 10 eV;
 curtain gas = 50; ion source gas 1 = 45; ion source gas 2 = 70;
 temperature (TEM) = 350°C.

Left Chromatogram Injection Amount: 50 ng each

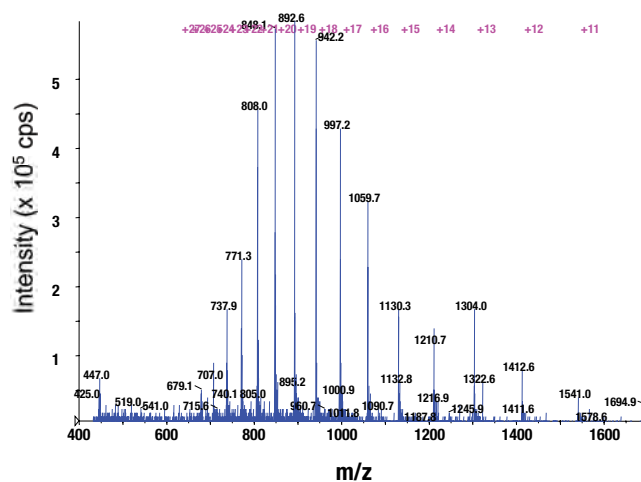
Right Chromatogram Injection Amount: 8µg each, except 1.5µg for growth hormone

1. Bovine Cytochrome C, M = 12222 (ave.)
2. Horse Apomyoglobin, M = 16941 (ave.)
3. Bovine Carbonic Anhydrase II, M = 28998 (ave.)
4. Chicken Ovalbumin, M = 44455 (ave.)

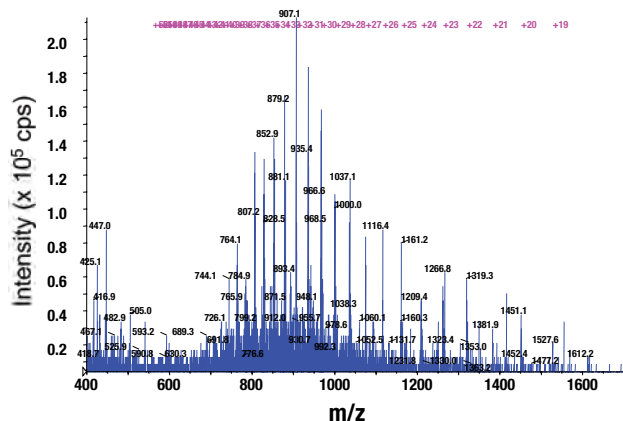
Peak 1 - Bovine Cytochrome C



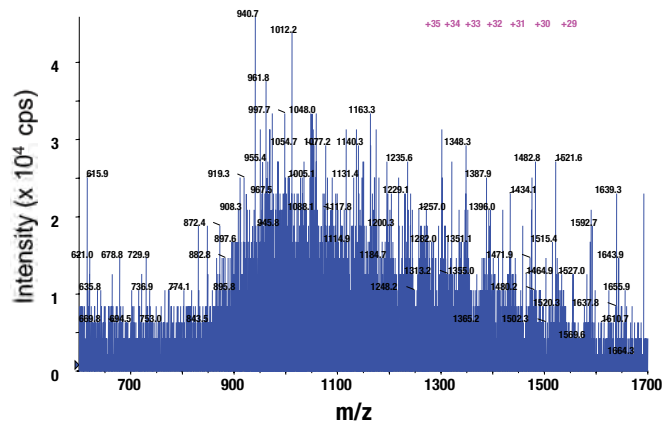
Peak 2 - Horse Apomyoglobin



Peak 3 - Bovine Carbonic Anhydrase II

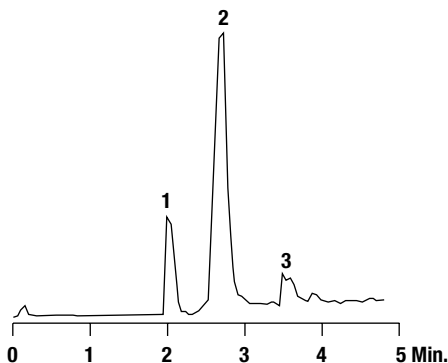


Peak 4 - Chicken Ovalbumin



Proteins & Peptides/Reversed-Phase

LC-MS of Proteins



1. Human Insulin, M = 5803 (ave.)
2. Human Serum Albumin, M = 66520 (ave.)
3. Human Growth Hormone, M = 22123 (ave.)

Column: Vydac.® ProZap™ C18, 2.1 x 10mm
Mobile Phase: A: 0.2% Formic Acid, 0.01% Trifluoroacetic Acid in Acetonitrile:Water (5:95)
 B: 0.2% Formic Acid, 0.01% Trifluoroacetic Acid in Acetonitrile:Water (80:20)
Gradient:

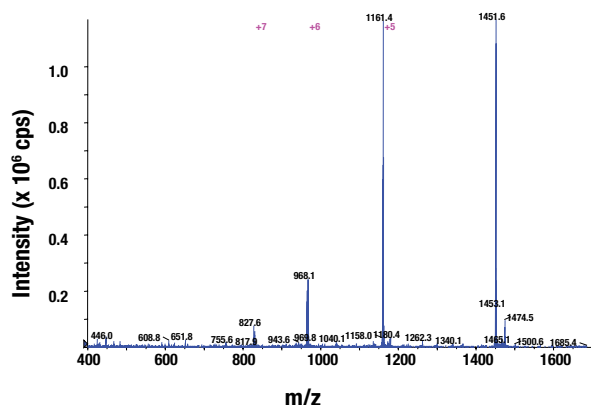
Time:	0	4.0	4.5	4.7
%B:	20	90	90	20

Flow Rate: 0.4mL/min
Detector: AB/MDS Sciex Q TRAP® MS. EMS scan 400-1700 amu;
 scan rate = 1000 amu/s; ion spray voltage = 5000 V; LIT fill time = 50 ms;
 Q3 entry barrier = 8V; declustering potential = 20; collision energy = 10 eV;
 curtain gas = 50; ion source gas 1 = 45; ion source gas 2 = 70;
 temperature (TEM) = 350°C.

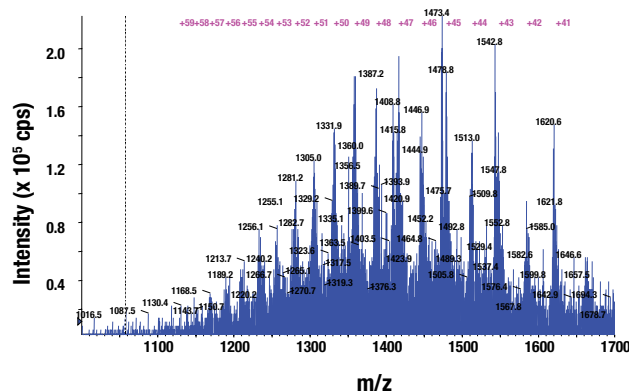
Left Chromatogram Injection Amount: 50 ng each

Right Chromatogram Injection Amount: 8µg each, except 1.5µg for growth hormone

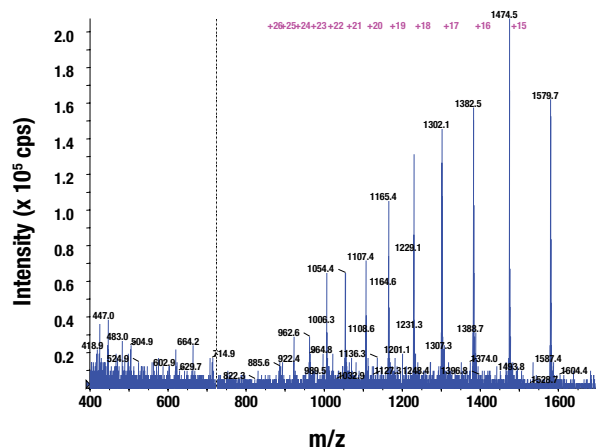
Peak 1 - Human Insulin



Peak 2 - Human Serum Albumin

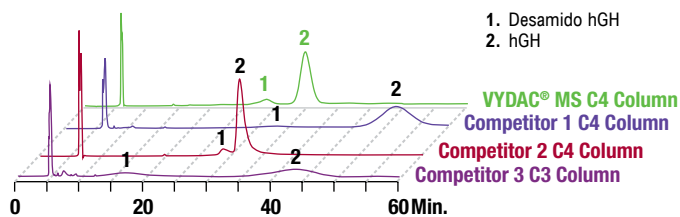


Peak 3 - Human Growth Hormone



Proteins & Peptides/Reversed-Phase

Human Growth Hormone (hGH) Assay on 300Å C4 Columns



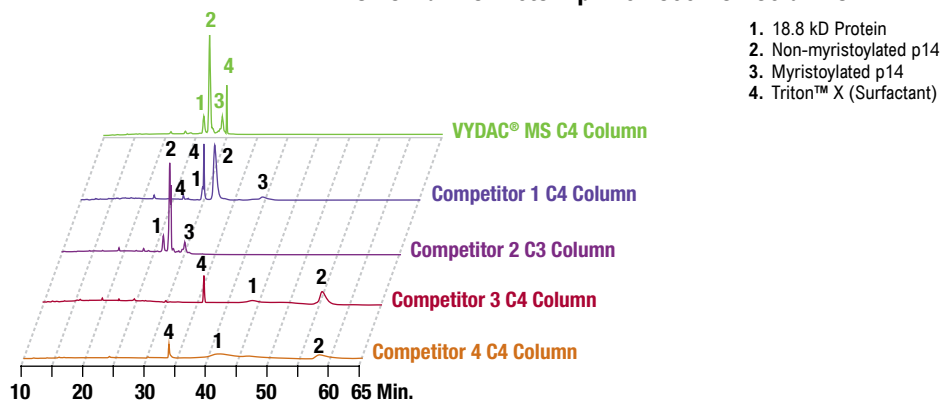
Columns: Vydac® MS C4 (Part No. 214MS54), Competitor 1 C4, Competitor 2 C4, and Competitor 3 C3 (all 300Å, 250 x 4.6mm packed with 5µm except 4µm for Competitor 1)

Mobile Phase: 50mM Tris, pH7.5:n-Propanol (71:29)

Flow Rate: 0.5mL/min

Detector: UV at 220nm

Transmembrane Protein p14 on 300Å C4 Columns



Columns: Vydac® MS C4 (Part No. 214MS54), Competitor 1 C4, Competitor 2 C3, Competitor 3 C4, and Competitor 4 C4 (all 300Å, 250 x 4.6mm packed with 5µm except 4µm for Competitor 1)

Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water B: 0.085% Trifluoroacetic Acid in Acetonitrile

Gradient Vydac®, Comp. 1, & Comp. 2:

Time:	0	20	25	45
%B:	20	60	80	80

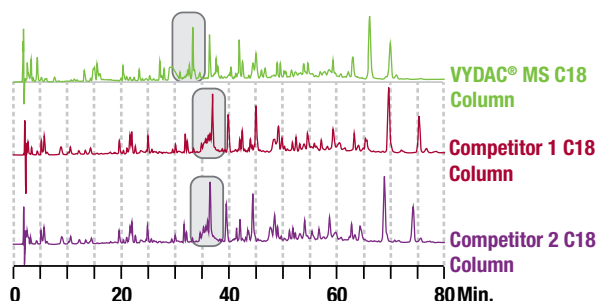
Gradient Comp. 3 & Comp. 4:

Time:	0	20	25	45	50	80
%B:	20	60	80	80	90	90

Flow Rate: 1.0mL/min

Detector: UV at 215nm

Tryptic Digest of Fetuin on 300Å C18 Columns



Columns: Vydac® MS C18 (Part No. 238MS5415), Competitor 1 C18, and Competitor 2 C18 (all 300Å, 5µm, 150 x 4.6mm)

Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water B: 0.085% Trifluoroacetic Acid in Acetonitrile

Gradient:

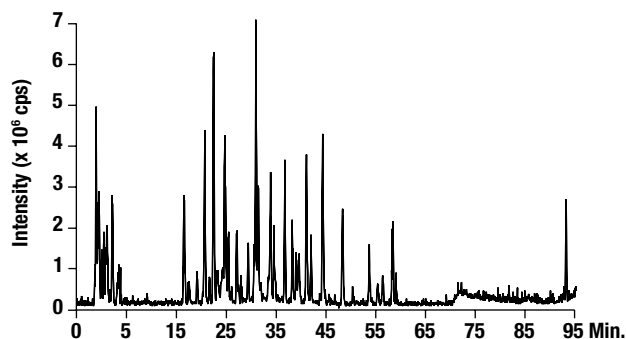
Time:	0	5	80	90	100
%B:	4	4	40	90	90

Flow Rate: 1.0mL/min

Detector: UV at 215nm

Proteins & Peptides/Reversed-Phase

Base Peak Chromatogram of Tryptic Digest of BSA

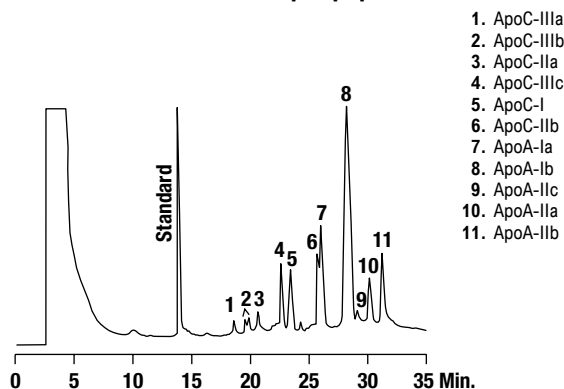


Column: Vydac® Everest® C18, 300Å, 5µm, 300µm x 150mm (Part No. 238EV5.315)
Mobile Phase: A: 0.1% Formic Acid in Water
 B: 0.1% Formic Acid in Acetonitrile
Gradient:

Time:	0	5	75	85	95
%B:	4	4	40	90	90

Flow Rate: 5µL/min
Column Temp: 22°C
Peptide Load: 0.1µL injection of 5.8µg/µL (580ng or 9pmol)
MS Detector: AB/MDS Sciex Q-Trap.

Human Apolipoproteins



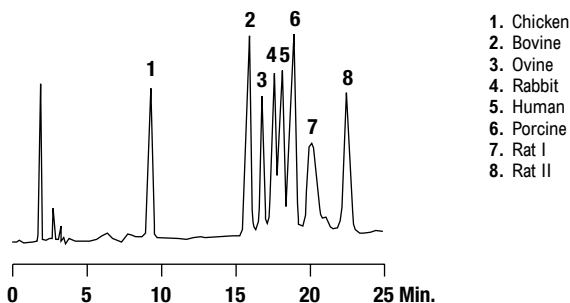
Column: Vydac® C18, 5µm, 250 x 4.6mm (Part No. 218TP54)
Mobile Phase: A: Acetonitrile:0.1% Trifluoroacetic Acid (25:75)
 B: Acetonitrile:0.1% Trifluoroacetic Acid (58:42)
Gradient:

Time:	0	33
%B:	0	100

Flow Rate: 1.2mL/min
Detector: UV

1. ApoC-IIIa
2. ApoC-IIIb
3. ApoC-IIa
4. ApoC-IIIc
5. ApoC-I
6. ApoC-IIb
7. ApoA-Ia
8. ApoA-Ib
9. ApoA-IIc
10. ApoA-IIa
11. ApoA-IIb

Insulin Variants



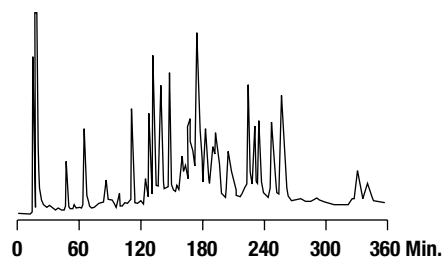
Column: Vydac® C4, 5µm, 250 x 4.6mm (Part No. 214TP54)
Mobile Phase: A: 0.1% Trifluoroacetic Acid
 B: Acetonitrile
Gradient:

Time:	0	25
%B:	27	30

Detector: UV

1. Chicken
2. Bovine
3. Ovine
4. Rabbit
5. Human
6. Porcine
7. Rat I
8. Rat II

Ribosomal Proteins

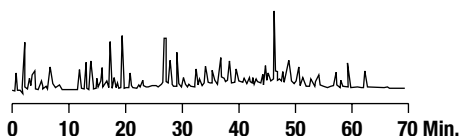


Column: Vydac® C4, 5µm, 250 x 4.6mm (Part No. 214TP54)
Mobile Phase: A: 0.1% Trifluoroacetic Acid
 B: Isopropanol
Gradient:

Time:	0	355
%B:	10	38

Detector: UV

Tryptic Digest of Bovine Serum Albumin

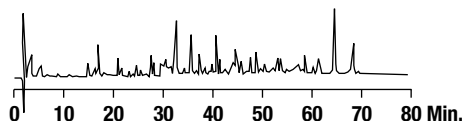


Column: Vydac® Everest® C18, 5µm, 150 x 4.6mm (Part No. 238EV5415)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.085% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	5	80	90	100
%B:	4	4	40	90	90

Flow Rate: 1.0mL/min
Detector: UV at 215nm

Tryptic Digest of Fetuin (a Glycoprotein)



Column: Vydac® Everest® C18, 5µm, 150 x 4.6mm (Part No. 238EV5415)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.085% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	5	80	90	100
%B:	4	4	40	90	90

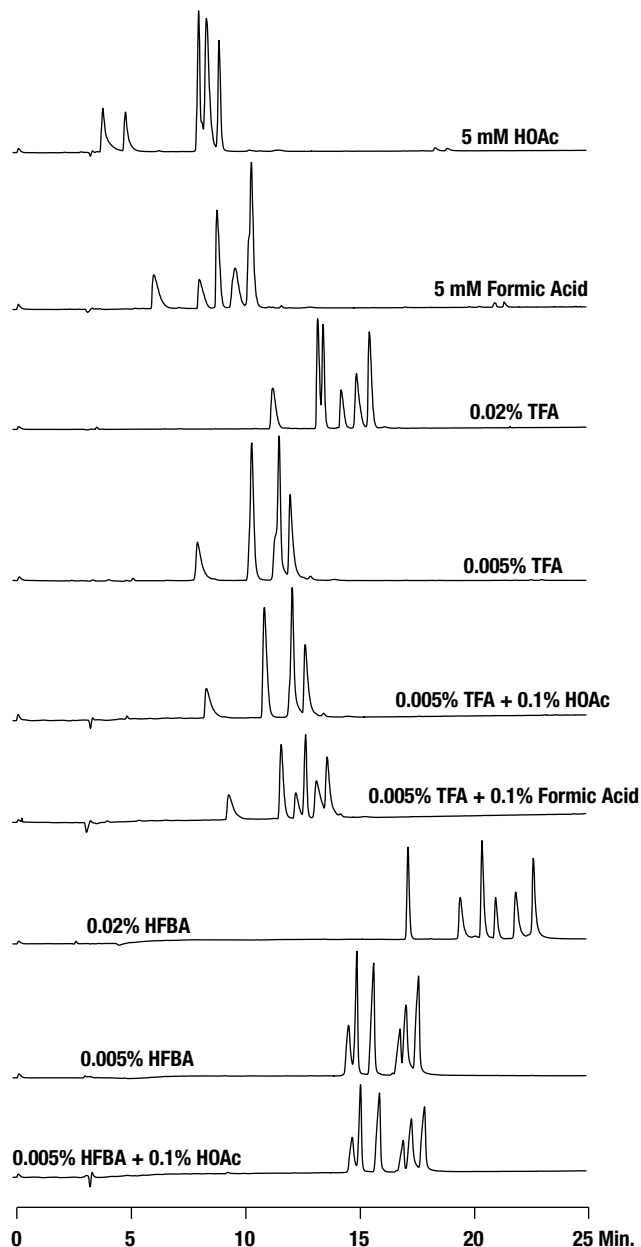
Flow Rate: 1.0mL/min
Detector: UV at 215nm

Proteins & Peptides/Reversed-Phase

Peptides on 238MS C18 Column with Various Modifiers

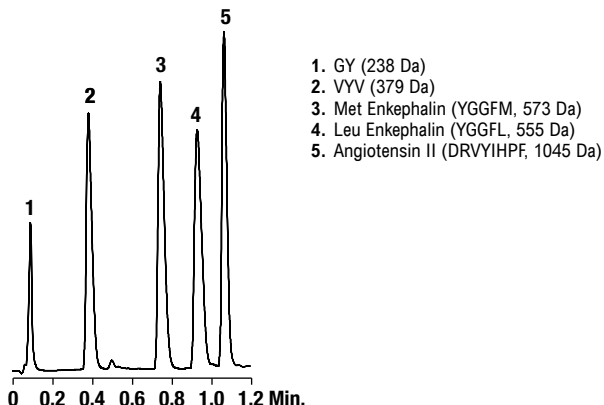
In order to demonstrate the effects of mobile phase modifiers and modifier concentrations, a mixture of six peptides was separated on a monomeric C18 MS column under identical gradient conditions with a variety of ion-pair reagents. Significant differences in selectivity arise depending on the concentrations and identities of the ions present in the mobile phase. Perfluorinated Acidic modifiers even at very low levels (0.005% w/v) produce increased retention. For this particular mixture, the best spread of peaks was obtained with heptafluorobutyric Acid (HFBA) at 0.02% (w/v). However, this might be expected to differ for other peptides.

Column: Vydac® Monomeric C18, 5µm, 250 x 4.6mm (Part No. **238MS54**)
Gradient: 10 to 40% Acetonitrile over 30 min for all chromatograms with constant concentration of modifier as indicated (w/v)
Flow Rate: 1.0mL/min
Detector: UV at 220nm
Sample: Oxytocin, Bradykinin, Angiotensin II, Eledoisin-related Peptide, Neurotensin, and Angiotensin I



Proteins & Peptides/Reversed-Phase

Peptides

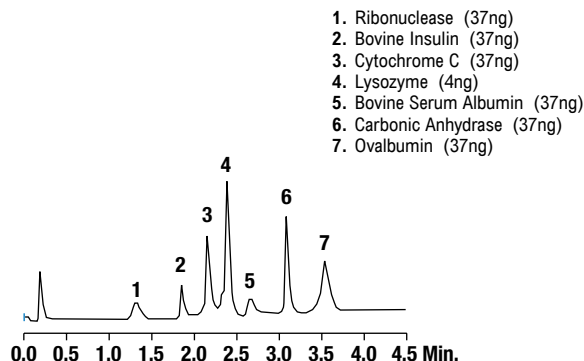


Column: Vydac® ProZap™ C18, 500Å, 1.5µm, 10 x 2.1mm
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.085% Trifluoroacetic Acid:Acetonitrile (20:80)
Gradient:

Time:	0	0.1	0.7	1.1	1.2
%B:	4	15	20	50	4

Flow Rate: 0.8mL/min
Detector: UV at 215nm

Fast Protein Analysis

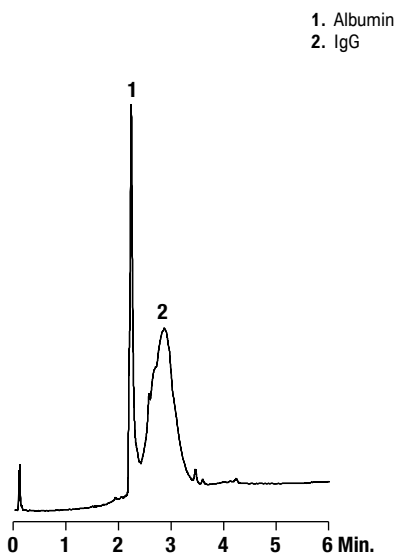


Column: Vydac® ProZap™ C18, 1.5µm, 10 x 2.1mm
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.085% Trifluoroacetic Acid in Acetonitrile
Gradient:

Time:	0	4.0	4.5	4.7
%B:	23	75	75	23

Flow Rate: 0.2mL/min
Detector: UV at 280nm

Antibodies in Sheep Serum on ProZap

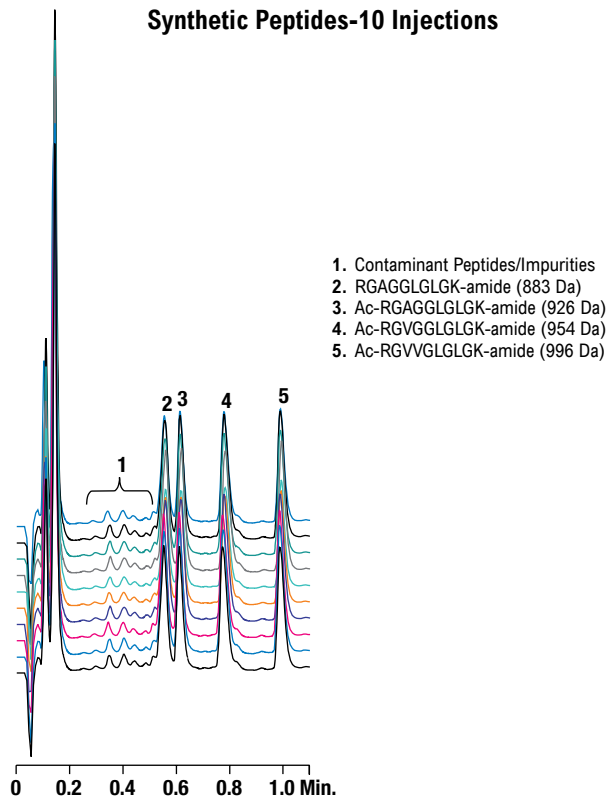


Column: Vydac® ProZap™ C18, 500Å, 1.5µm, 10 x 2.1mm
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.085% Trifluoroacetic Acid:n-Propanol (10:90)
Gradient:

Time:	0	6.0	6.5	7.0
%B:	5	75	75	5

Flow Rate: 0.5mL/min
Detector: UV at 280nm

Synthetic Peptides-10 Injections



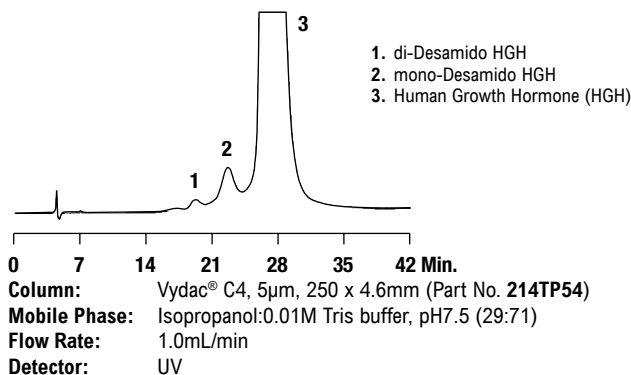
Column: Vydac® ProZap™ C18, 500Å, 1.5µm, 10 x 2.1mm
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.085% Trifluoroacetic Acid:Acetonitrile (20:80)
Gradient:

Time:	0	0.1	0.7	1.1	1.2
%B:	4	15	20	50	4

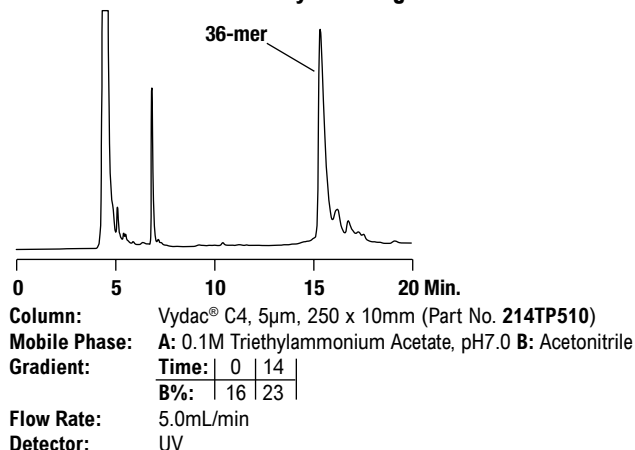
Flow Rate: 0.8mL/min
Detector: UV at 215nm

Proteins & Peptides/Reversed-Phase

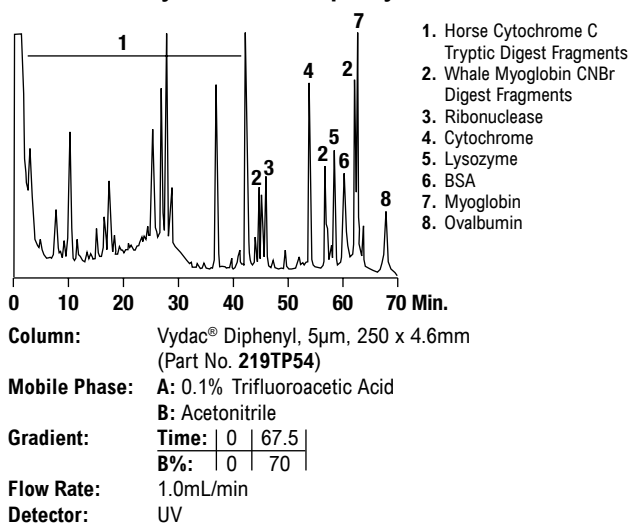
Human Growth Hormone



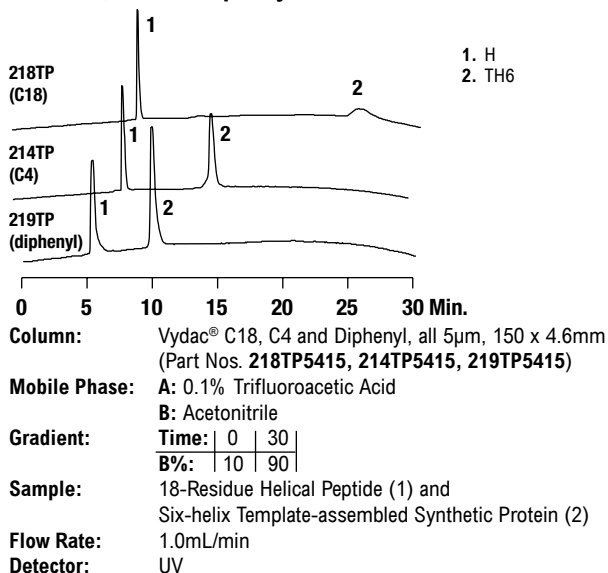
Purification of Trityl-On Oligonucleotides



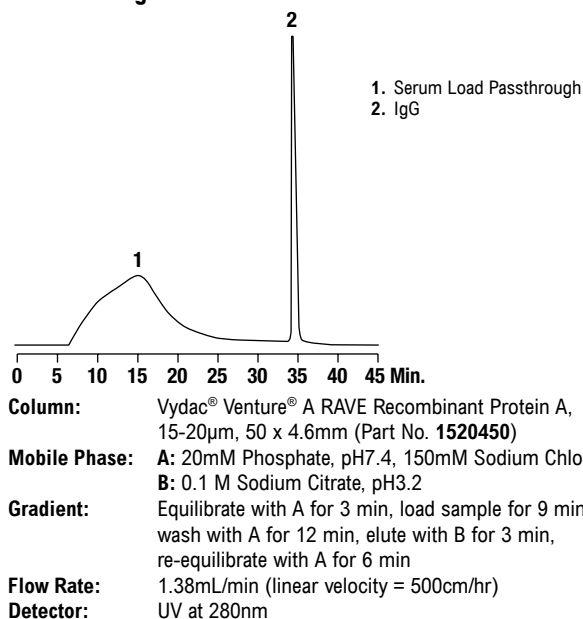
Separation of Protein / Peptide Mixture on Vydac® 219TP Diphenyl Column



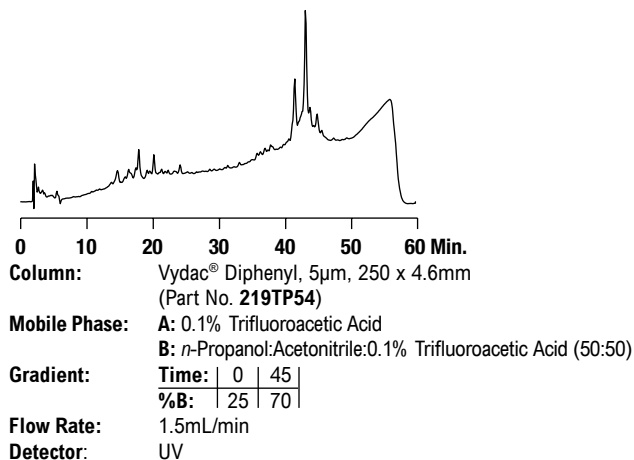
Comparison of Polypeptide Separations on C18, C4 and Diphenyl Reversed-Phase Columns



IgG Purification from Bovine Serum

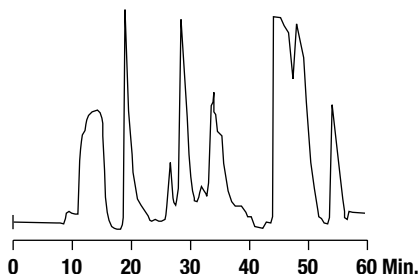


Analysis of a Lipid Peptide



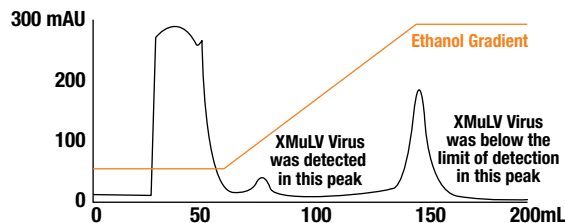
Proteins & Peptides/Reversed-Phase

Purification of Synthetic Peptide, GnRH Antagonist



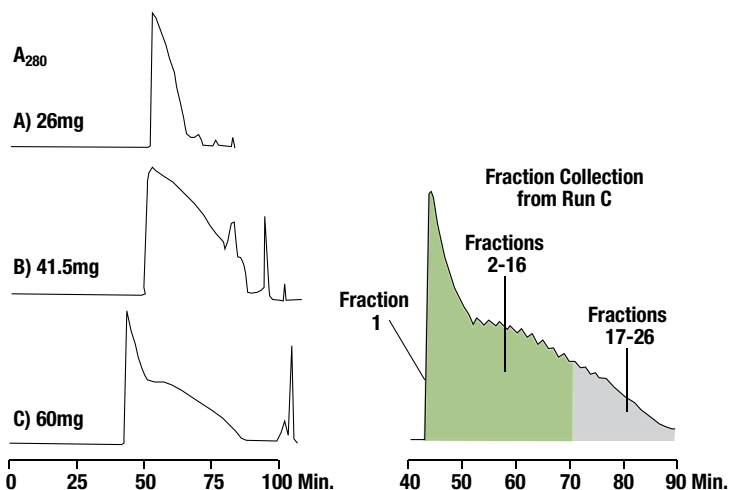
Column: Vydac® C18, 15–20µm, 50mm i.d. x 30cm
(Part No. 218TP15205030)
Mobile Phase: Acetonitrile:Water/TEAP (Gradient)
Sample: 1.2g of synthesis mixture

Separation of Xenotropic Murine Leukemia Virus from Target Protein



Column: Vydac® C4, 20–30µm (Part No. 214TPB2030)
Mobile Phase: Ethanol gradient

Preparative Chromatography of Porcine Insulin



Column: Vydac® C4, 10–15µm, 10 x 250mm (Part No. 214TP101510)

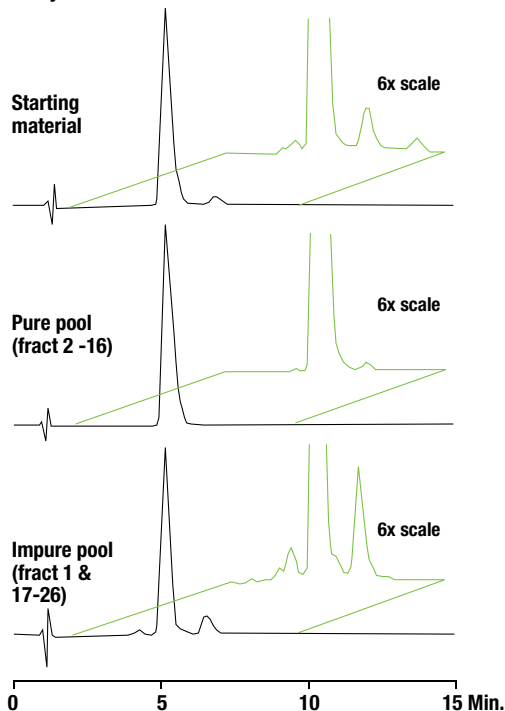
A) Sample: 26mg partially purified porcine insulin in 30mL of 20% Acetonitrile/0.1% Trifluoroacetic acid, pumped on at 8mL/min
Elution: 4mL/min
Gradient: 20–35% Acetonitrile in 0.1% Trifluoroacetic acid over 90 min

B) Sample: 41.5mg in 42mL of 20% Acetonitrile/0.1% Trifluoroacetic acid, pumped on at 8mL/min
Elution: 4mL/min
Gradient: 20–27% Acetonitrile in 35 min, hold 27% for 10 min followed by 27–28% in 20 min, 28%–35% in 10 min, and 35–95% in 5 min, all in 0.1% Trifluoroacetic acid.

C) Sample: 60mg in 60mL of 20% Acetonitrile/0.1% Trifluoroacetic acid, pumped on at 8mL/min
Elution: 4mL/min
Gradient: 20–27% Acetonitrile in 35 min, hold 27% for 10 min followed by 27–28.5% in 30 min, hold 28.5% for 20 min

Analyses of Starting Material and Pooled Fractions from Preparative Column

Analyses



Column: Vydac® C4, 5µm, 4.6 x 150mm (Part No. 214TP5415)

Samples: Starting material and pooled fractions of preparative run C, as indicated.

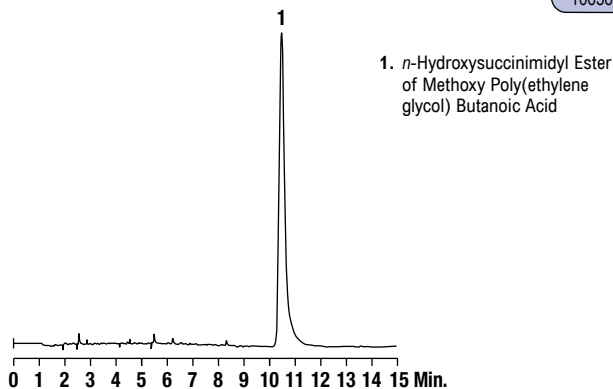
Detection: UV at 215nm

Elution: 1.5mL/min

Gradient: 30–33% Acetonitrile in 0.1% Trifluoroacetic acid over 15 min

Proteins & Peptides/Reversed-Phase

mPEG-SBA

CHROM
10636

Column: Alltech® ProSphere™ 300, 5µm, 150 x 4.6mm (Part No. 35560)

Mobile Phase: A: Water B: Acetonitrile

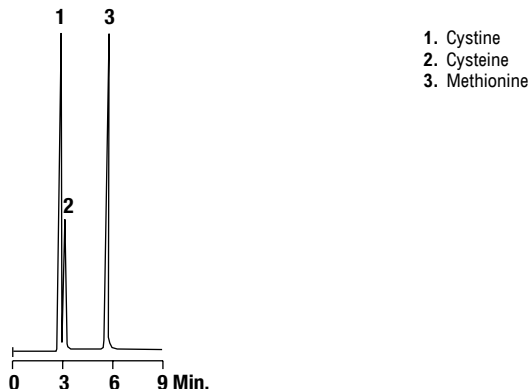
Gradient: Time: 0 3 15
%B: 30 30 80

Flow Rate: 1.0mL/min

Detector: ELSD

Amino Acids

Sulfur-Containing Native Amino Acids

CHROM
9413

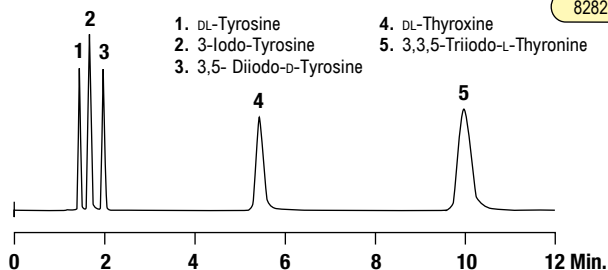
Column: Grom™ Sil 120 ODS-4 HE, 5µm, 250 x 4mm (Part No. 5113626)

Mobile Phase: Water

Flow Rate: 0.8mL/min

Detector: UV at 210nm

Thyroid Chemicals

CHROM
8282

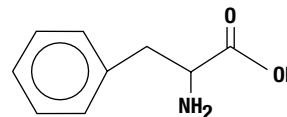
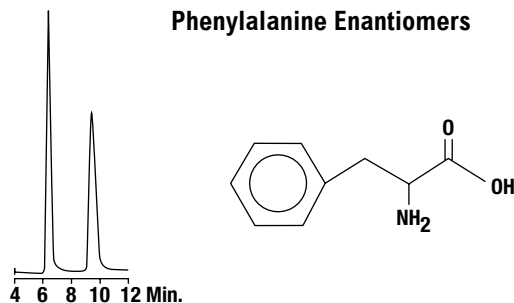
Column: Alltech® Platinum™ EPS C18, 5µm, 150 x 4.6mm (Part No. 32214)

Mobile Phase: 0.05M KH₂PO₄, pH3.2:Acetonitrile (65:35)

Flow Rate: 1.0mL/min

Detector: UV at 254nm

Phenylalanine Enantiomers

CHROM
8770

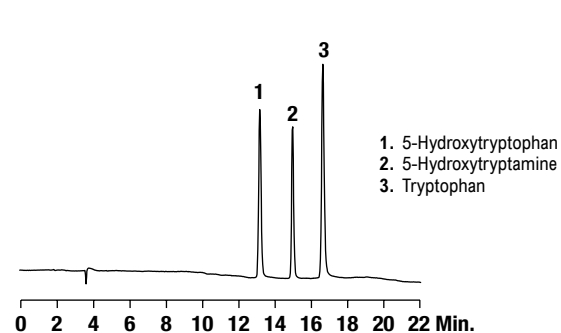
Column: Astec™ Chirobiotic® T™, 250 x 4.6mm (Part No. 12053)

Mobile Phase: Ethanol:Water (80:20)

Flow Rate: 1.0mL/min

Detector: UV at 210nm

Tryptophan Derivatives



Column: Vydac® C18, 5µm, 250 x 4.6mm (Part No. 201SP54)

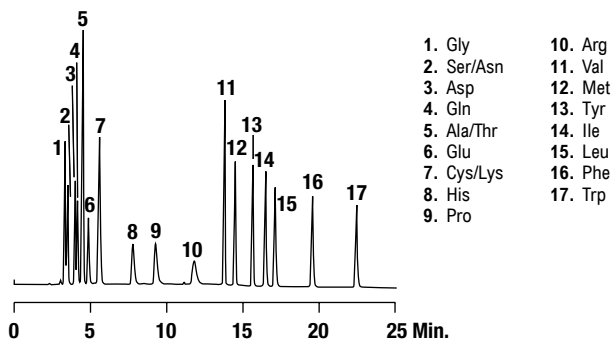
Mobile Phase: A: 50mM KH₂PO₄, pH4.59
B: 90% Acetonitrile

Gradient: Time: 0 3 10 15
%B: 1 1 15 35

Flow Rate: 1.5mL/min

Detector: UV at 254nm

Amino Acids without Derivatization



Column: Alltech® Prevail™ C18, 5µm, 250 x 4.6mm (Part No. 99210)

Mobile Phase: A: 5mM Heptafluorobutyric Acid, 0.7% Trifluoroacetic Acid
B: Acetonitrile

Gradient: Time: 0 6 8 25
%B: 0 0 15 35

Flow Rate: 1.0mL/min

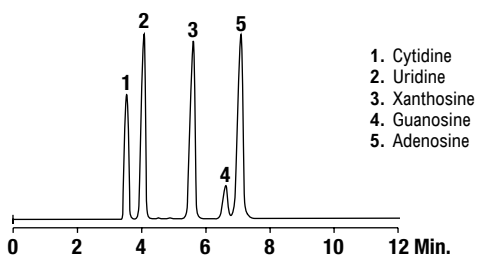
Detector: ELSD

more applications

View our complete searchable chromatogram database at www.discoverysciences.com/chromdb/

Nucleic Acids

Nucleosides

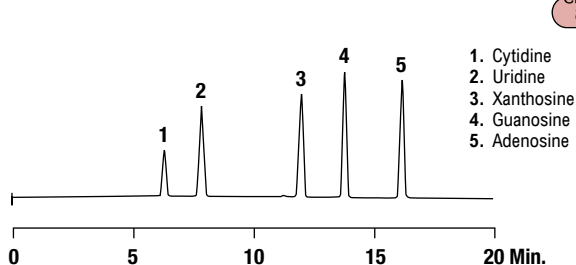

CHROM
10347

Column: Alltech® Alltima™ HP EPS C18, 5µm, 150 x 4.6mm (Part No. 87715)
Mobile Phase: A: 0.03M Potassium Phosphate, pH3.2
 B: Acetonitrile
Gradient:

Time:	0	2	20
%B:	5	5	30

Flow Rate: 1.0mL/min
Detector: UV at 260nm

Nucleosides

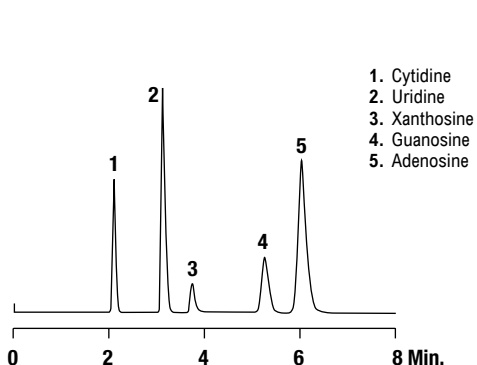

CHROM
8245

Column: Alltech® Platinum™ EPS C18, 5µm, 250 x 4.6mm (Part No. 32246)
Mobile Phase: A: 0.03M KH₂PO₄, pH3.2 B: Acetonitrile
Gradient:

Time:	0	2	20
%B:	5	5	30

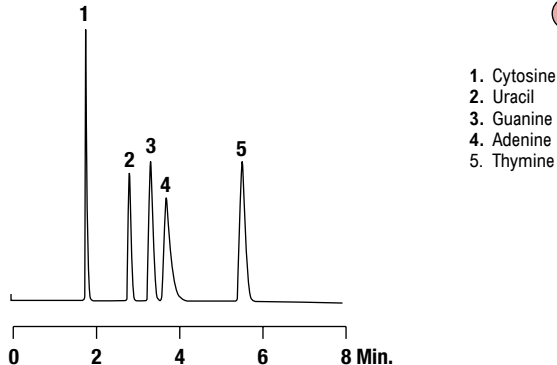
Flow Rate: 0.7mL/min
Detector: UV at 260nm

Nucleosides


CHROM
9410

Column: Alltech® Prevail™ C18, 5µm, 150 x 4.6mm (Part No. 99208)
Mobile Phase: 0.025M KH₂PO₄, pH3.0:Acetonitrile (96:4)
Flow Rate: 1mL/min
Detector: UV at 254

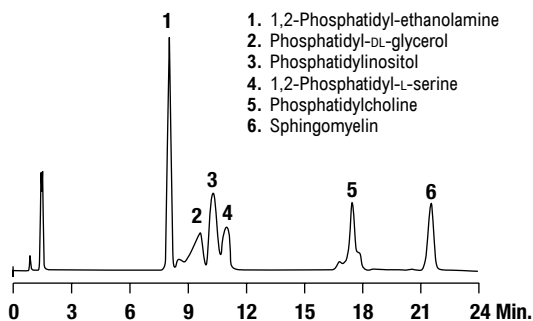
Nucleic Acid Bases


CHROM
9411

Column: Alltech® Prevail™ C18, 5µm, 150 x 4.6mm (Part No. 99208)
Mobile Phase: 0.025M KH₂PO₄, pH3.0:Acetonitrile (98:2)
Flow Rate: 1.0mL/min
Detector: UV at 254

Miscellaneous

Phospholipids

CHROM
10314

Column: Alltech® Prevail™ Silica, 3µm, 150 x 4.6mm (Part No. 99275)

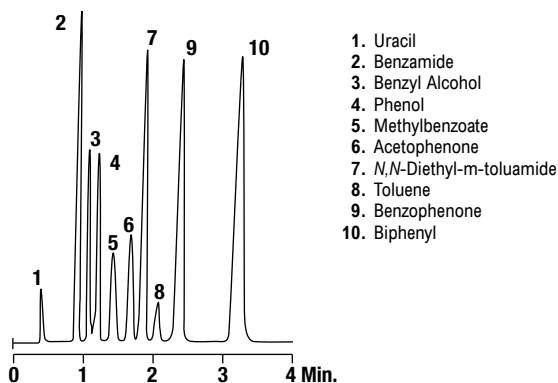
Mobile Phase: A: Isopropanol B: Hexane C: Water

Gradient:	Time:	0	7	15
	%B:	40	40	40
	%C:	2	8	8

Flow Rate: 1.0mL/min

Detector: ELSD

Monoaromatics

CHROM
8982

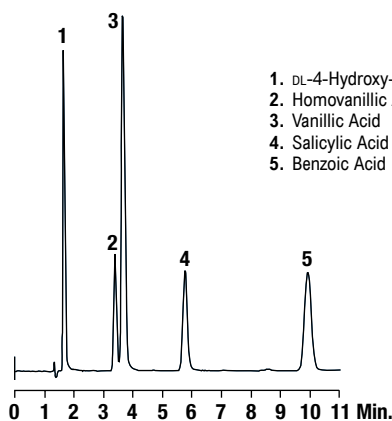
Column: Alltech® Platinum™ EPS C18, 3µm, 53 x 7mm Rocket™ (Part No. 50573)

Mobile Phase: 0.05M KH₂PO₄, pH3.0:Methanol (50:50)

Flow Rate: 2.3mL/min

Detector: UV at 254nm

Aromatic Acids

CHROM
7373

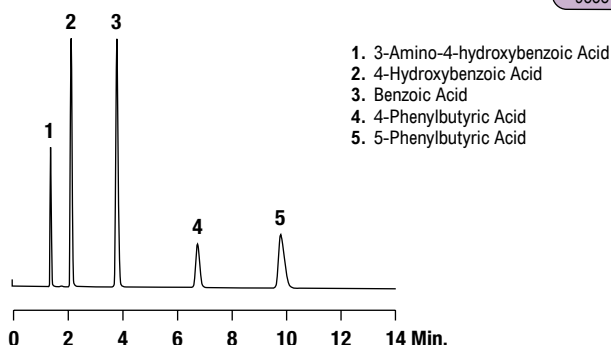
Column: Alltech® Alltima™ C18, 5µm, 150 x 4.6mm (Part No. 88052)

Mobile Phase: 0.05M KH₂PO₄, pH3.2:Methanol (60:40)

Flow Rate: 1.0mL/min

Detector: UV at 254nm

Benzyl Acids

CHROM
9538

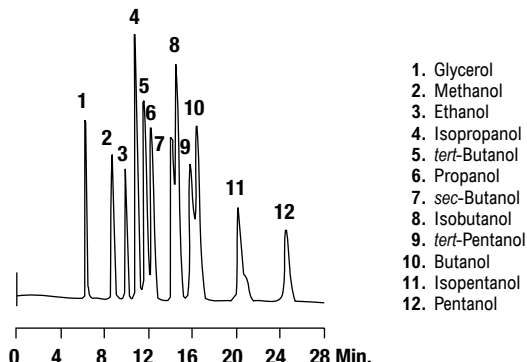
Column: Alltech® Prevail™ Organic Acid, 5µm, 150 x 4.6mm (Part No. 88640)

Mobile Phase: 0.025M KH₂PO₄, pH2.5:Acetonitrile (60:40)

Flow Rate: 1.0mL/min

Detector: UV at 254nm

Alcohols

CHROM
5440

Column: Alltech® OA-1000, 9µm, 300 x 6.5mm (Part No. 9046)

Mobile Phase: 0.01N Sulfuric Acid

Flow Rate: 0.8mL/min

Column Temp: 65°C

Detector: RI

more applications

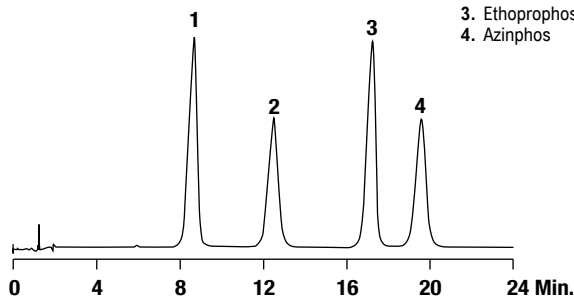
View our complete searchable chromatogram database at www.discoverysciences.com/chromdb/

Pesticides

Organophosphates

CHROM
10346

1. Methyl Parathion
2. Dichlorvos
3. Ethoprophos
4. Azinphos

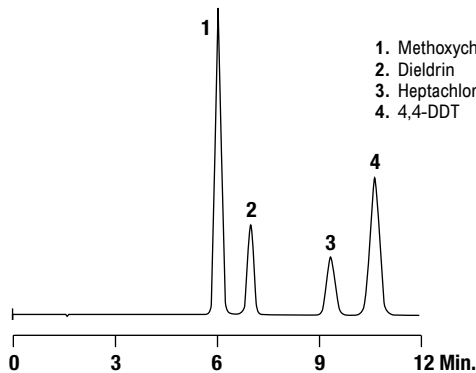


Column: Alltech® Alltima™ HP EPS C18, 5µm, 150 x 4.6mm (Part No. 87715)
Mobile Phase: Water:Methanol (60:40)
Flow Rate: 1.0mL/min
Detector: UV at 214nm

Organochlorines

CHROM
8437

1. Methoxychlor
2. Dieldrin
3. Heptachlor
4. 4,4-DDT

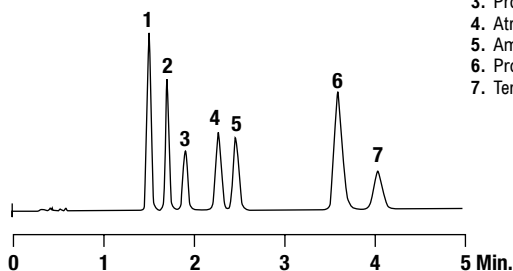


Column: Alltech® Platinum™ C18, 5µm, 150 x 4.6mm (Part No. 32043)
Mobile Phase: 0.025M K₂HPO₄, pH7.0:Methanol (25:75)
Flow Rate: 1.0mL/min
Detector: UV at 220nm

Triazine Herbicides

CHROM
8671

1. Simazine
2. Simetryn
3. Prometon
4. Atrazine
5. Ametryn
6. Prometryn
7. Terbutryn

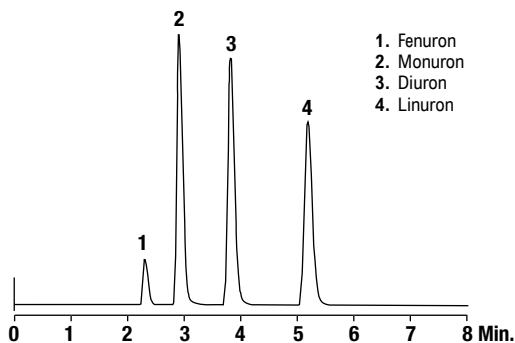


Column: Alltech® Platinum™ EPS C18, 1.5µm, 33 x 7mm Rocket™ (Part No. 50575)
Mobile Phase: 0.025M KH₂PO₄, pH3.0:Acetonitrile (65:35)
Flow Rate: 2.0mL/min
Detector: UV at 254nm

Herbicides

CHROM
10355

1. Fenuron
2. Monuron
3. Diuron
4. Linuron

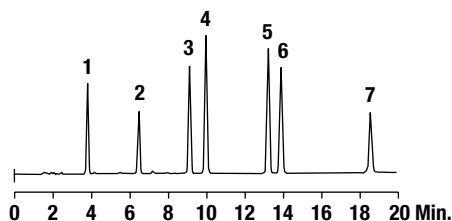


Column: Alltech® Alltima™ HP CN, 5µm, 150 x 4.6mm (Part No. 87769)
Mobile Phase: Water:Acetonitrile (60:40)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Carbamate and Urea Pesticides

CHROM
10739

1. Fenuron
2. Monuron
3. Fluometuron
4. Diuron
5. Methiocarb
6. Linuron
7. Neburon

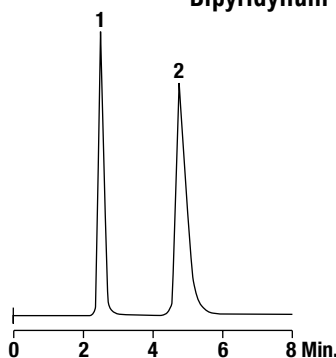


Column: GraceSmart™ C18, 5µm, 150 x 4.6mm (Part No. 5138812)
Mobile Phase: A: 0.025M KH₂PO₄, pH3.2
 B: Acetonitrile
Gradient: Time: 0 20
 %B: 30 60
Flow Rate: 1.0mL/min
Detector: UV at 240nm

Bipyridylum Herbicides

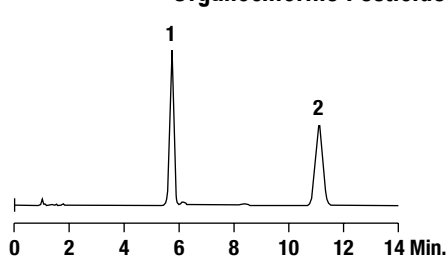
CHROM
8439

1. Diquat
2. Paraquat



Column: Alltech® Platinum™ Silica 100Å 3µm, 30mm x 4.6mm (Custom)
Mobile Phase: 0.01M Tetramethylammonium Hydroxide and 0.15M Ammonium Sulfate in Water, pH3.0 with 5M Sulfuric Acid
Flow Rate: 0.5mL/min
Detector: UV at 310nm until 3 minutes
 UV at 260nm after 3 minutes

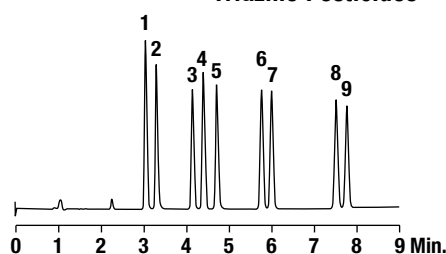
Organochlorine Pesticides

CHROM
10740

1. Methoxychlor
2. 4,4-DDT

Column: GraceSmart™ C18, 5μm, 150 x 4.6mm
(Part No. 5138812)
Mobile Phase: Methanol:0.025M K₂HPO₄, pH7.0 (75:25)
Flow Rate: 1.5mL/min
Detector: UV at 220nm

Triazine Pesticides

CHROM
10580

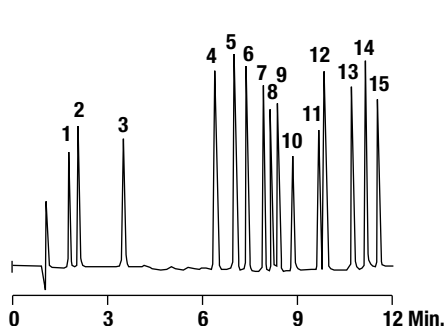
1. Simazine
2. Atraton
3. Simetryn
4. Atrazine
5. Prometon
6. Ametryn
7. Propazine
8. Prometryn
9. Terbutryn

Column: Vydac® Denali® 238DE C18, 3μm, 100 x 4.6mm
(Part No. 238DE3410)
Mobile Phase: A: 25mM Potassium Phosphate, pH6.4
B: Acetonitrile
Gradient:

Time:	0	0.5	7.5	8.0
%B:	40	40	63	63

Flow Rate: 1.5mL/min
Detector: UV at 220nm

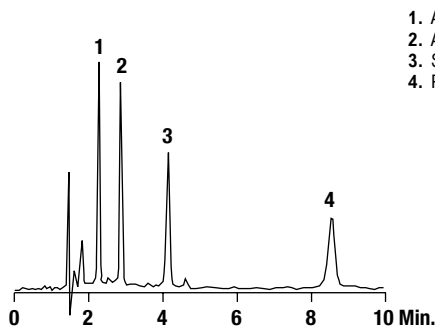
Analysis of Pesticides



1. Methomyl
2. Oxamyl
3. Fenurone
4. Monurone
5. Carburone
6. Propoxur
7. Carbaryl
8. Fluometurone
9. Diurone
10. Protham
11. Sidurone
12. Linurone
13. Chlorpropham
14. Barban
15. Neburone

Column: Grom™ Sil 100 Octyl-4 FE, 3μm, 150 x 4mm
Mobile Phase: A: Water B: Acetonitrile
Flow Rate: 1.5mL/min
Detector: UV at 240nm

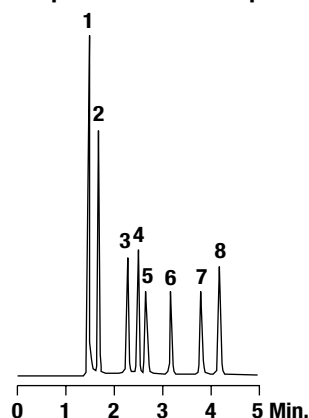
Atrazine Herbicides



1. Atrazine Desisopropyl
2. Atrazine Desethyl
3. Simazine
4. Propazine

Column: Jones Genesis® CN, 4μm, 150 x 4.6mm
(Part No. FM15965E)
Mobile Phase: Acetonitrile:0.05% Trichloroacetic Acid in Water, pH3.0 (15:85)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Separation of Chlorophenoxy Acid Herbicide Mixtures



1. Picloram
2. Chloramben
3. Dicamba
4. Bentazon
5. 2,4-D
6. Dichlorprop
7. 2,4,5-TP
8. Acifluorphen

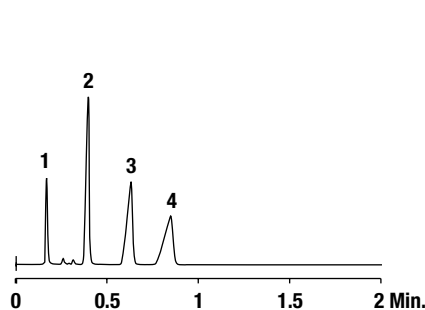
Column: Vydac® Denali®, 3μm, 100 x 4mm (Part No. 238DE3410)
Mobile Phase: A: 0.5% Phosphoric Acid Buffer, pH1.8; B: Acetonitrile
Gradient:

Time:	0	5
%B:	50	90

Flow Rate: 1.0mL/min
Detector: UV at 225nm

Benzenes

Benzenes

CHROM
10713

1. Thiourea
2. Toluene
3. Propylbenzene
4. Butylbenzene

Column: Grace® VisionHT™ C18, 1.5μm, 50 x 2.0mm
(Part No. 5139605)
Mobile Phase: 20mM Potassium Phosphate, pH2.5:Acetonitrile (45:55)
Flow Rate: 0.8mL/min
Detector: UV at 254nm

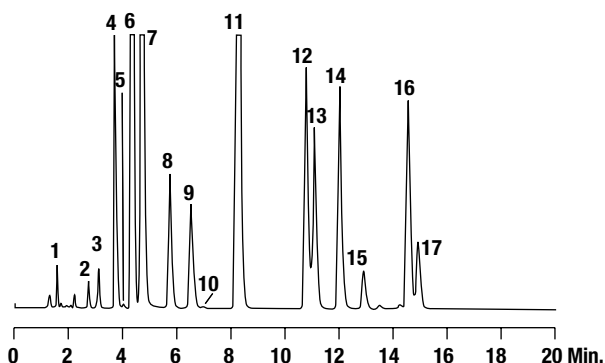
more applications

View our complete searchable chromatogram database at www.discoverysciences.com/chromdb/

PAHs

Polyaromatic Hydrocarbons

CHROM
9400



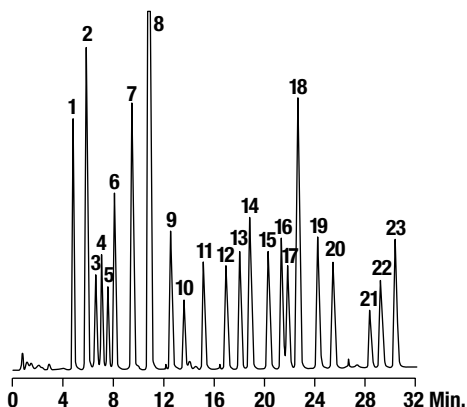
- | | |
|-------------------|-----------------------------|
| 1. Benzene | 10. Benzo[a]anthracene |
| 2. Naphthalene | 11. Chrysene |
| 3. Acenaphthylene | 12. Benzo[b]fluoranthene |
| 4. Fluorene | 13. Benzo[k]fluoranthene |
| 5. Acenaphthene | 14. Benzo[a]pyrene |
| 6. Phenanthrene | 15. Dibenzo[a,h]anthracene |
| 7. Anthracene | 16. Benzo[g,h,i]perylene |
| 8. Fluoranthene | 17. Indeno[1,2,3,c,d]pyrene |
| 9. Pyrene | |

Column: Alltech® Prevail™ C18, 5µm, 150 x 4.6mm (Part No. 99208)
Mobile Phase: A: Water B: Acetonitrile
Gradient:

Time:	0	4	15
%B:	72	72	100

Flow Rate: 1.5mL/min
Detector: UV at 254

Beyond the EPA 16 Priority-Pollutant PAHs



- | | | |
|------------------------|-------------------------------------|-----------------------------|
| 1. Naphthalene | 9. Fluoranthene | 17. Benzo[e]pyrene |
| 2. Acenaphthylene | 10. Pyrene | 18. Benzo[b]fluoranthene |
| 3. 1-Methylnaphthalene | 11. Benzo[c]phenanthrene | 19. Benzo[k]fluoranthene |
| 4. 2-Methylnaphthalene | 12. Cyclopenta[c,d]pyrene | 20. Benzo[a]pyrene |
| 5. Acenaphthene | 13. Benzo[a]anthracene | 21. Dibenzo[a,h]anthracene |
| 6. Fluorene | 14. Chrysene | 22. Benzo[g,h,i]perylene |
| 7. Phenanthrene | 15. Benzo[b]naphtho[2,1-d]thiopen | 23. Indeno[1,2,3,c,d]pyrene |
| 8. Anthracene | 16. 7,12-Dimethylbenzo[a]anthracene | |

Column: Vydac® C18, 5µm, 150 x 4.6mm (Part No. 201TP5415)
Mobile Phase: A: Water B: Acetonitrile
Gradient:

Time:	0	30
%B:	50	100

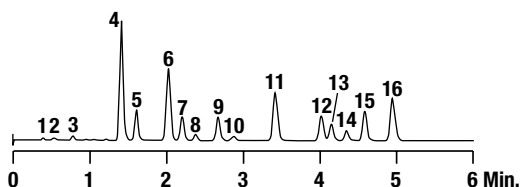
Flow Rate: 1.0mL/min

Nitroaromatics

Fast Polyaromatic Hydrocarbons

CHROM
10757

- | | | |
|-------------------|--------------------------|-----------------------------|
| 1. Naphthalene | 7. Fluoranthene | 13. Benzo[a]pyrene |
| 2. Acenaphthylene | 8. Pyrene | 14. Dibenzo[a,h]anthracene |
| 3. Acenaphthene | 9. Benzo[a]anthracene | 15. Benzo[g,h,i]perylene |
| 4. Fluorene | 10. Chrysene | 16. Indeno[1,2,3,c,d]pyrene |
| 5. Phenanthrene | 11. Benzo[b]fluoranthene | |
| 6. Anthracene | 12. Benzo[k]fluoranthene | |



Column: Alltech® Alltima™ HP C18 HiLoad, 3µm, 53 x 7mm (Part No. 87690)
Mobile Phase: A: Water B: Acetonitrile
Gradient:

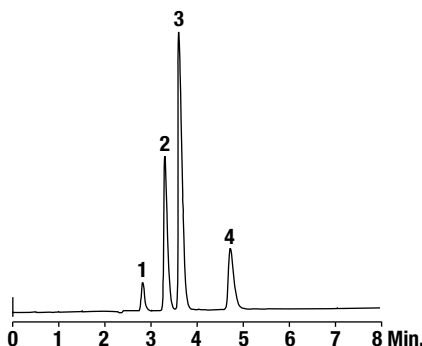
Time:	0	0.1	5
%B:	40	40	100

Flow Rate: 5mL/min
Detector: UV at 230nm

Nitroaromatics (Normal-Phase)

CHROM
10358

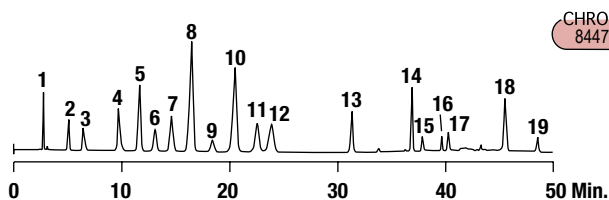
- | |
|-----------------------|
| 1. Nitrobenzene |
| 2. 2,6-Dinitrotoluene |
| 3. 1,3-Dinitrobenzene |
| 4. 4-Nitrophenol |



Column: Alltech® Alltima™ HP CN, 5µm, 150 x 4.6mm (Part No. 87769)
Mobile Phase: Hexane:Isopropanol (85:15)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Water Pollutants

Semipolar & Highly Hydrophilic Waste Water Contaminants



Column: Alltech® Platinum™ EPS C18, 5µm, 250 x 4.6mm (Part No. 32246)

Mobile Phase: A: 0.03M Monosodium Phosphate, pH2.5
B: Acetonitrile:Methanol:Water (40:50:10)

Gradient:

Time:	0	3	13	20	25	30	40	45	55
%B:	5	5	10	10	20	40	75	80	80

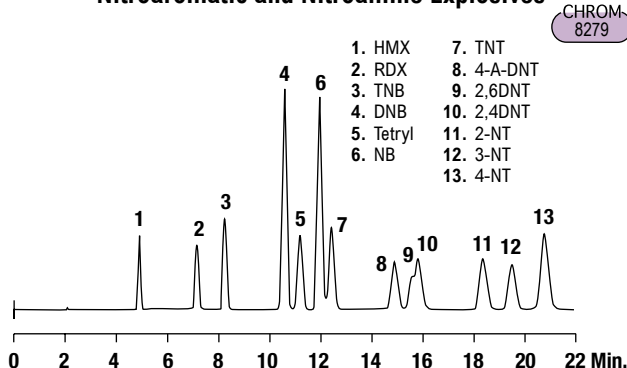
Flow Rate: 1.0mL/min

Detector: UV at 210nm

1. 4-Amino-5-hydroxy-2,7-naphthalene-disulfonic Acid
2. Hydroquinone
3. Benzylamine
4. 3'-Aminoacetophenone
5. Phenol
6. 4-Hydroxyphenylacetic Acid
7. 1-Naphthalene Sulfonic Acid
8. 2,4-Dihydroxybenzoic Acid
9. 1-Naphthalene Sulfonic Acid Degradant
10. 4-Hydroxy-3-methoxybenzoic Acid
11. Phenylacetic Acid
12. *m*-Cresol
13. 4-Hydroxycinnamic Acid
14. *trans*-Cinnamaldehyde
15. *trans*-Cinnamaldehyde Degradant
16. *trans*-Cinnamaldehyde Degradant
17. 2-Naphthalenethiol Degradant
18. 2-Naphthalenethiol
19. 2-Naphthalenethiol Degradant

Explosives

Nitroaromatic and Nitroamine Explosives



Column: Alltech® Platinum™ C18, 5µm, 250 x 4.6mm (Part No. 32064)

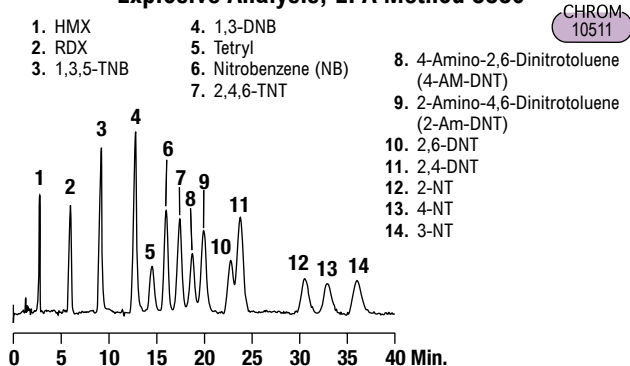
Mobile Phase: Water:Methanol (50:50)

Flow Rate: 0.7mL/min

Detector: UV at 254nm

1. HMX
2. RDX
3. TNB
4. DNB
5. Tetryl
6. NB
7. TNT
8. 4-A-DNT
9. 2,6DNT
10. 2,4DNT
11. 2-NT
12. 3-NT
13. 4-NT

Explosive Analysis, EPA Method 8330



Column: Alltech® Adsorbosphere™ UHS C18, 5µm, 150 x 4.6mm (Part No. 288118)

Mobile Phase: Water:Methanol (50:50)

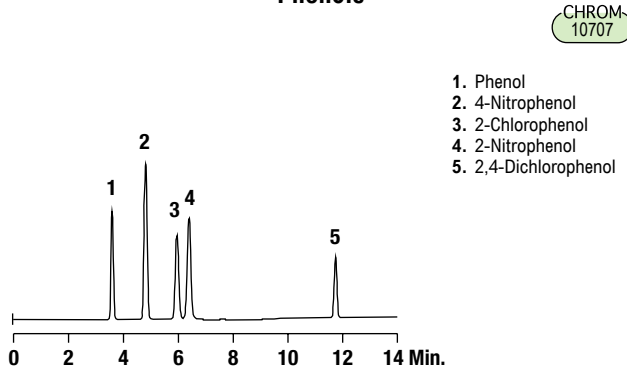
Flow Rate: 1.0mL/min

Detector: UV at 254nm

1. HMX
2. RDX
3. 1,3,5-TNB
4. 1,3-DNB
5. Tetryl
6. Nitrobenzene (NB)
7. 2,4,6-TNT
8. 4-Amino-2,6-Dinitrotoluene (4-AM-DNT)
9. 2-Amino-4,6-Dinitrotoluene (2-AM-DNT)
10. 2,6-DNT
11. 2,4-DNT
12. 2-NT
13. 4-NT
14. 3-NT

Phenols

Phenols



Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)

Mobile Phase: A: 1% Glacial Acetic Acid in Water
B: 1% Glacial Acetic Acid in Methanol

Gradient:

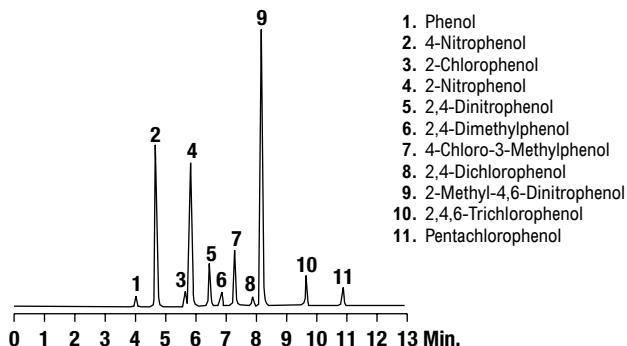
Time:	0	6	8	15
%B:	45	45	60	80

Flow Rate: 1.0mL/min

Detector: UV at 280nm

1. Phenol
2. 4-Nitrophenol
3. 2-Chlorophenol
4. 2-Nitrophenol
5. 2,4-Dichlorophenol

Separation of EPA 604 Phenols Mixture



Column: Vydac® Denali®, 5µm, 150 x 4.6mm (Part No. 238DE5415)

Mobile Phase: A: 1% Acetic Acid in Water
B: 1% Acetic Acid in Acetonitrile

Gradient:

Time:	0	7	8	13
%B:	35	63	95	95

Flow Rate: 1.0mL/min

Detector: UV at 280nm

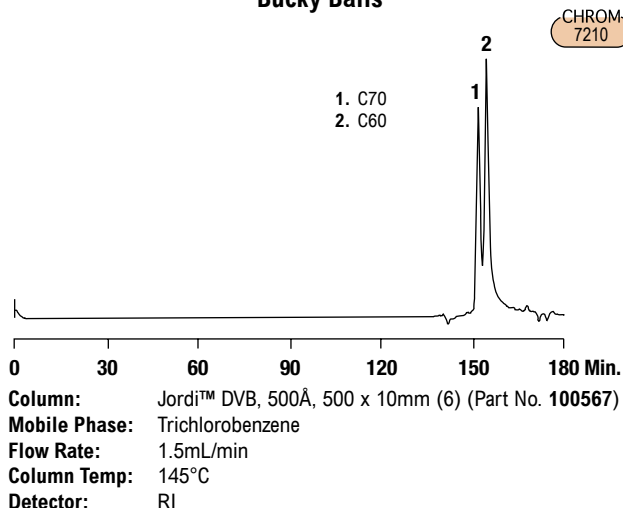
1. Phenol
2. 4-Nitrophenol
3. 2-Chlorophenol
4. 2-Nitrophenol
5. 2,4-Dinitrophenol
6. 2,4-Dimethylphenol
7. 4-Chloro-3-Methylphenol
8. 2,4-Dichlorophenol
9. 2-Methyl-4,6-Dinitrophenol
10. 2,4,6-Trichlorophenol
11. Pentachlorophenol

more applications

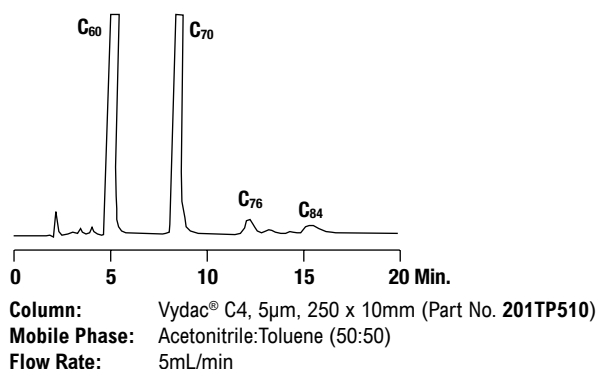
View our complete searchable chromatogram database at www.discoverysciences.com/chromdb/

Fullerenes

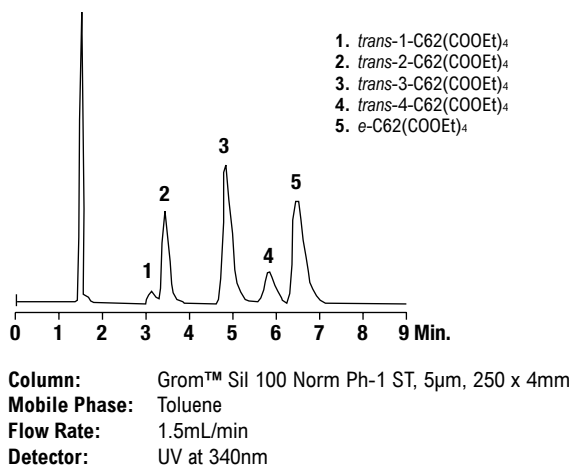
"Bucky Balls"



Buckminsterfullerenes

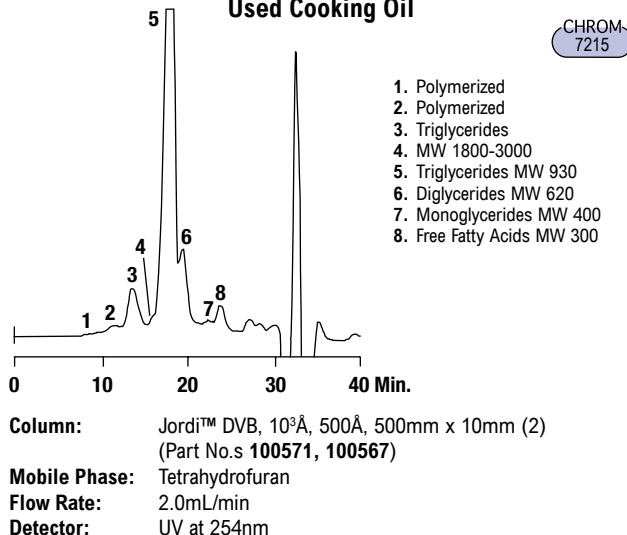


Regioisomeric Fullerene Derivatives



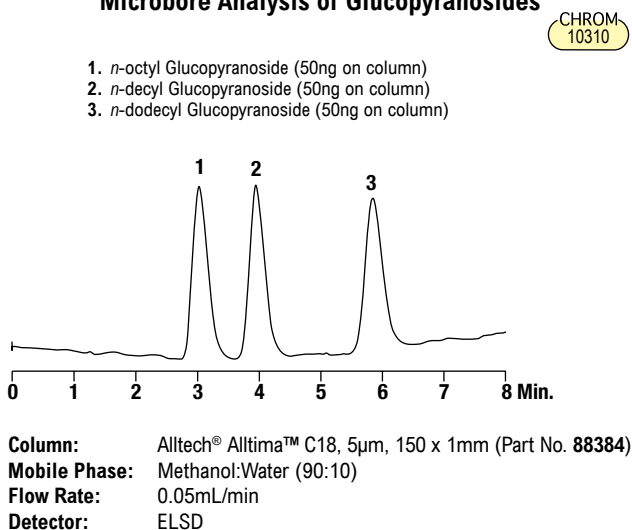
Cooking Oil

Used Cooking Oil



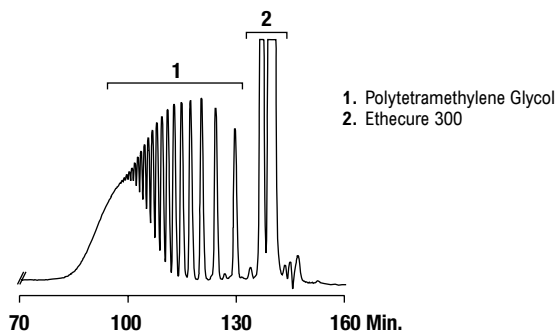
Surfactants

Microbore Analysis of Glucopyranosides



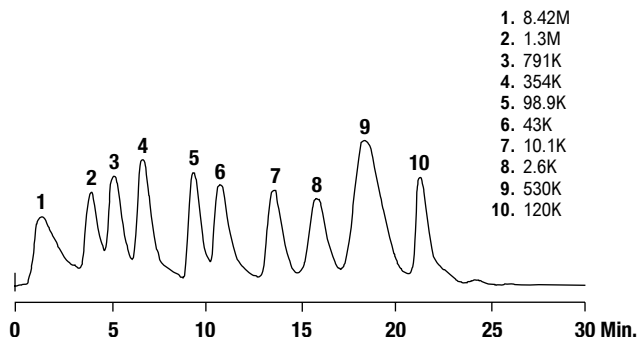
Polymers

Polyurethane Curatives

CHROM
7472

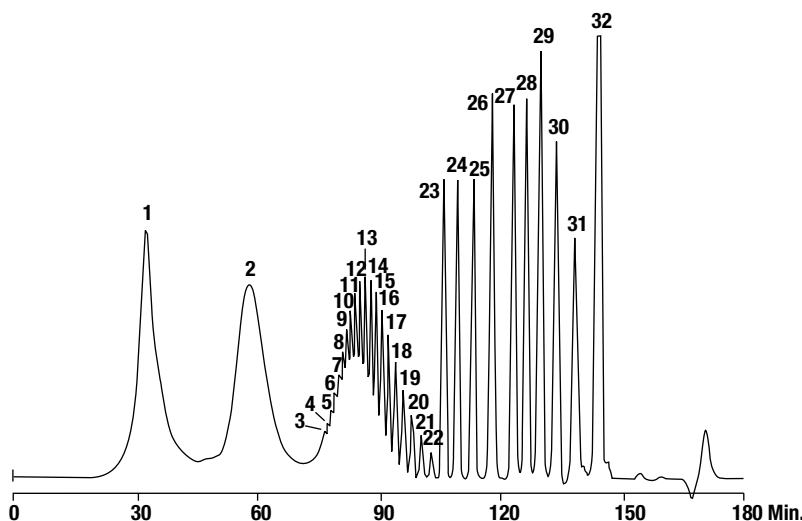
Column: Jordi™ DVB, 500Å, 500mm x 10mm (6)
(Part No. 100567)
Mobile Phase: Chloroform
Flow Rate: 1.5mL/min
Column Temp: 50°C
Detector: RI

Polystyrene

CHROM
7213

Column: Jordi™ DVB, Mixed Bed Linear, 500mm x 10mm
(Part No. 100583)
Mobile Phase: Tetrahydrofuran
Flow Rate: 1.5mL/min
Column Temp: 40°C
Detector: RI

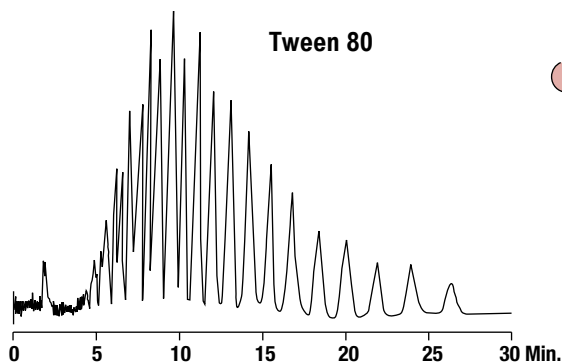
Polyethylene and Hydrocarbon Standards

CHROM
7220

- | | | |
|----------------|---------|---------|
| 1. PE-32000 MW | 14. C36 | 27. C10 |
| 2. PE-2155 MW | 15. C34 | 28. C9 |
| 3. C58 | 16. C32 | 29. C8 |
| 4. C56 | 17. C30 | 30. C7 |
| 5. C54 | 18. C28 | 31. C6 |
| 6. C52 | 19. C26 | 32. C5 |
| 7. C50 | 20. C24 | |
| 8. C48 | 21. C22 | |
| 9. C46 | 22. C20 | |
| 10. C44 | 23. C18 | |
| 11. C42 | 24. C16 | |
| 12. C40 | 25. C14 | |
| 13. C38 | 26. C12 | |

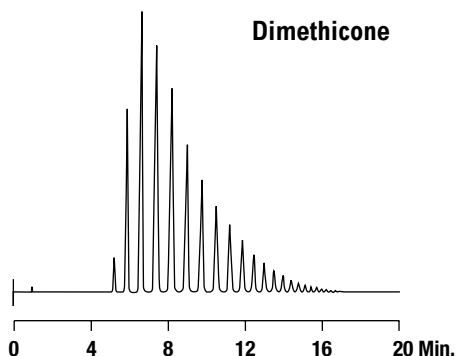
Column: Jordi™ DVB, 500Å, 500mm x 10mm (6)
(Part No. 100567)
Mobile Phase: Trichlorobenzene
Flow Rate: 1.5mL/min
Column Temp: 145°C
Detector: RI

Tween 80

CHROM
7809

Column: Alltech® Alltima™ C18, 5µm, 250 x 4.6mm
(Part No. 88056)
Mobile Phase: Water:Methanol (40:60)
Flow Rate: 1.0mL/min
Detector: ELSD

Dimethicone

CHROM
8636

Column: Alltech® Alltima™ C8, 5µm, 150 x 4.6mm (Part No. 88072)
Mobile Phase: A: Acetonitrile B: Chloroform
Gradient:

Time:	0	20
%B:	25	75

Flow Rate: 1.0mL/min
Detector: ELSD

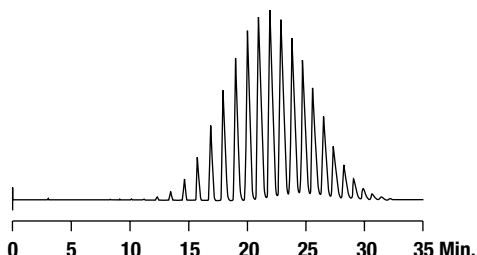
more applications

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Polymers

Polyethylene Glycol (MW=600)

CHROM
8442

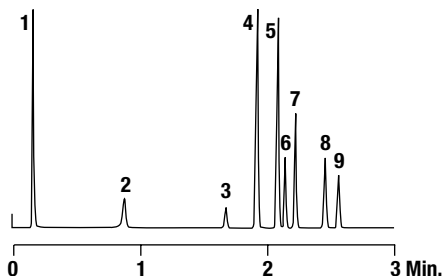


Column: Alltech® Adsorbosphere™ C8, 5µm, 250 x 4.6mm (Part No. 287112)
Mobile Phase: A: Methanol B: Water
Gradient: Time: 0 | 45
 %B: 60 | 20
Flow Rate: 0.6mL/min
Detector: ELSD

Phenones/Fast Gradient Column Formats

Phenone Homologs

CHROM
9467

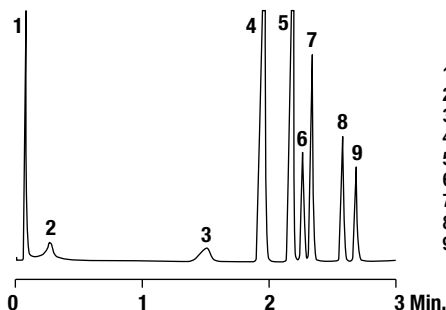


Columns: Alltech® Alltima™ C18, 3µm, 20 x 4.6mm Expedite™ (Part No. 43451)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.08% Trifluoroacetic Acid in Acetonitrile
Gradient: Time: 0 | 2
 %B: 5 | 100
Flow Rate: 2.0mL/min
Detector: UV at 254nm

1. Uracil
2. Theophylline
3. Acetophenone
4. Propiophenone
5. Butyrophenone
6. Benzophenone
7. Valerophenone
8. Heptanophenone
9. Octanophenone

Phenone Homologs

CHROM
9471

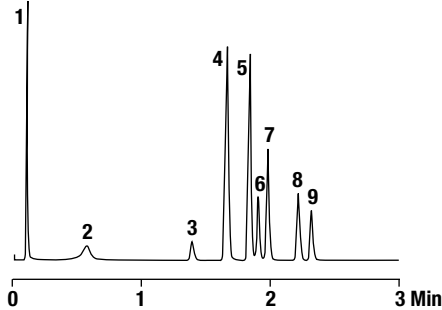


Columns: Alltech® Alltima™ C18, 3µm, 10 x 2.1mm Expedite™ (Part No. 43836)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.08% Trifluoroacetic Acid in Acetonitrile
Gradient: Time: 0 | 2
 %B: 5 | 100
Flow Rate: 1.0mL/min
Detector: UV at 254nm

1. Uracil
2. Theophylline
3. Acetophenone
4. Propiophenone
5. Butyrophenone
6. Benzophenone
7. Valerophenone
8. Heptanophenone
9. Octanophenone

Phenone Homologs

CHROM
9468

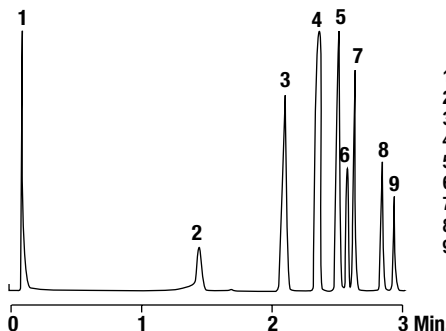


Columns: Alltech® Alltima™ C18, 3µm, 10 x 4.6mm Expedite™ (Part No. 43837)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.08% Trifluoroacetic Acid in Acetonitrile
Gradient: Time: 0 | 2
 %B: 5 | 100
Flow Rate: 2.0mL/min
Detector: UV at 254nm

1. Uracil
2. Theophylline
3. Acetophenone
4. Propiophenone
5. Butyrophenone
6. Benzophenone
7. Valerophenone
8. Heptanophenone
9. Octanophenone

Phenone Homologs

CHROM
9460

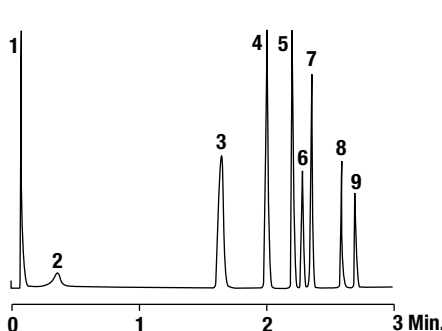


Column: Alltech® Prevail™ C18, 3µm, 20 x 2.1mm, Expedite™ (Part No. 43827)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.08% Trifluoroacetic Acid in Acetonitrile
Gradient: Time: 0 | 2 | 3
 %B: 0 | 100 | 100
Flow Rate: 1.0mL/min
Detector: UV at 254nm

1. Uracil
2. Theophylline
3. Acetophenone
4. Propiophenone
5. Butyrophenone
6. Benzophenone
7. Valerophenone
8. Heptanophenone
9. Octanophenone

Phenone Homologs

CHROM
9462

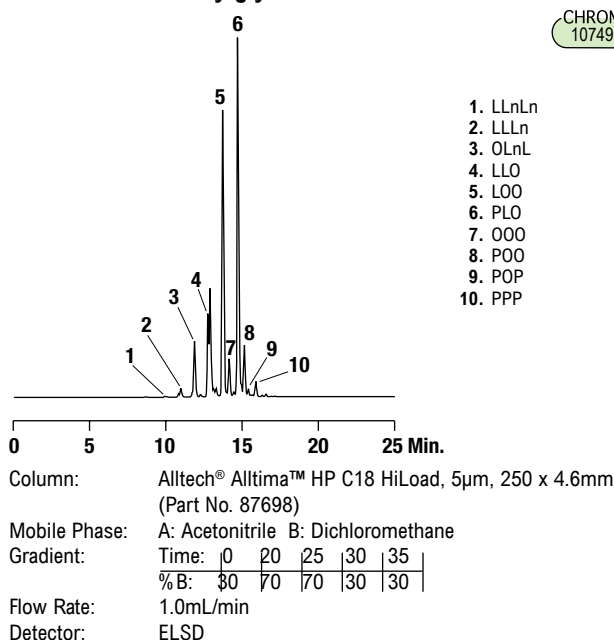


Column: Alltech® Alltima™ C18, 3µm, 20 x 2.1mm Expedite™ (Part No. 43803)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.08% Trifluoroacetic Acid in Acetonitrile
Gradient: Time: 0 | 2
 %B: 5 | 100
Flow Rate: 1.2mL/min
Detector: UV at 254nm

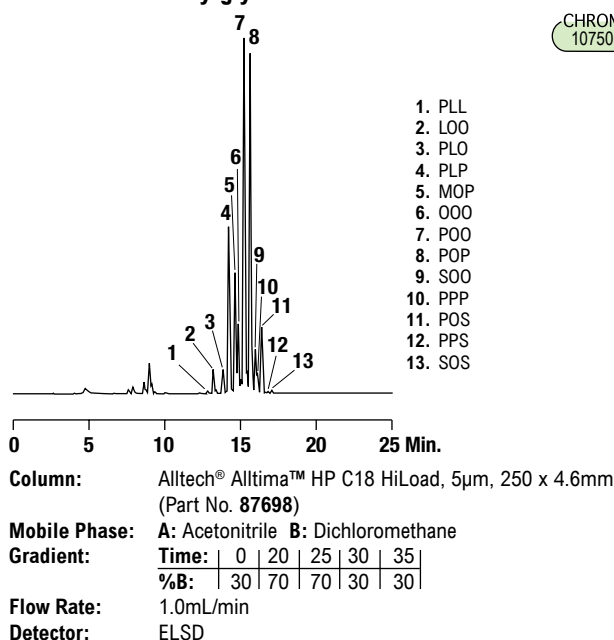
1. Uracil
2. Theophylline
3. Acetophenone
4. Propiophenone
5. Butyrophenone
6. Benzophenone
7. Valerophenone
8. Heptanophenone
9. Octanophenone

Biofuels

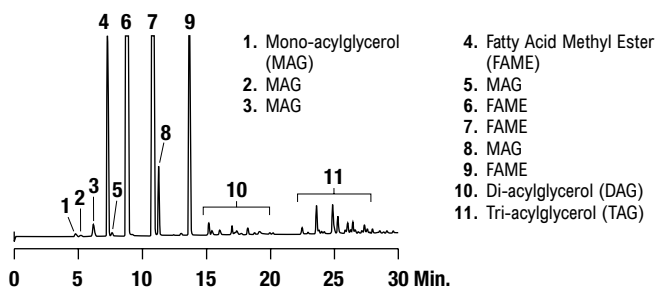
Triacylglycerols in Canola Oil

CHROM
10749

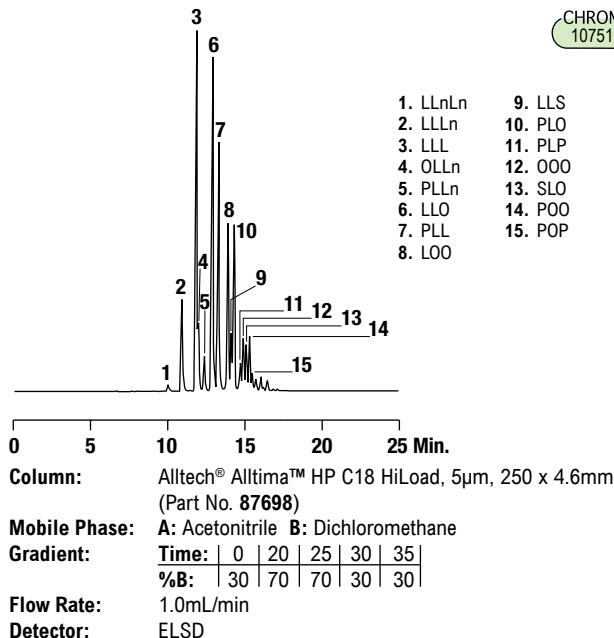
Triacylglycerols in Red Palm Oil

CHROM
10750

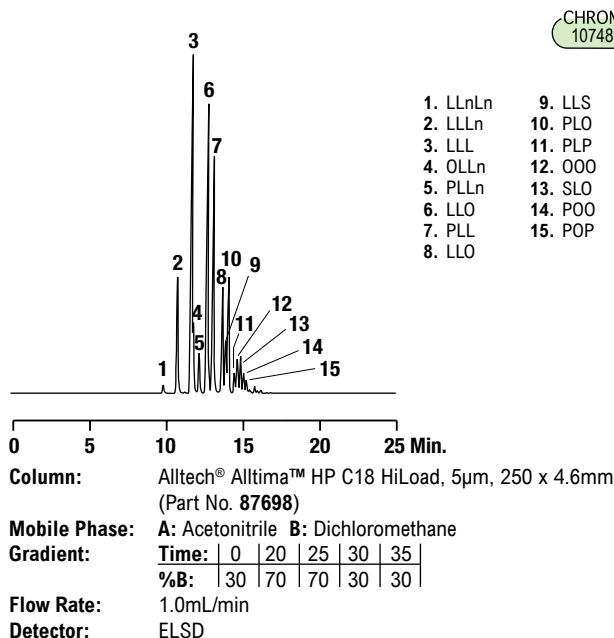
Biodiesel in Spec with EN14105 Method

CHROM
10644

Triacylglycerols in Used Chinese Frying Oil

CHROM
10751

Triacylglycerols in Soy Oil

CHROM
10748

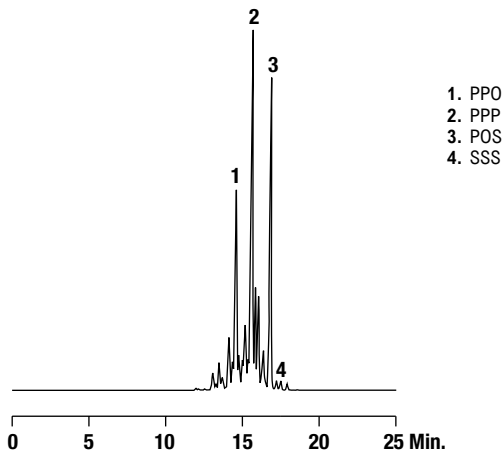
more applications

View our complete searchable chromatogram database at www.discoverysciences.com/chromdb/

Biofuels

Triacylglycerols in Lard

CHROM
10752



1. PPO
2. PPP
3. POS
4. SSS

Column: Alltech® Alltima™ HP C18 HiLoad, 5µm, 250 x 4.6mm (Part No. 87698)
Mobile Phase: A: Acetonitrile B: Dichloromethane
Gradient:

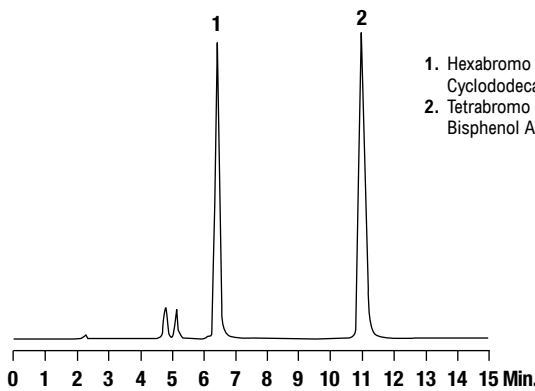
Time	0	20	25	30	35
%B	30	70	70	30	30

Flow Rate: 1.0mL/min
Detector: ELSD

Fire Retardants

Brominated Flame Retardants

CHROM
10261



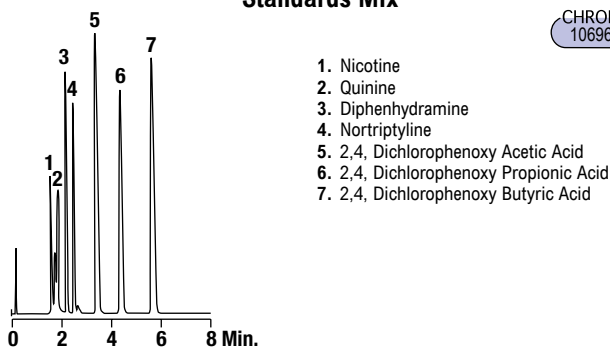
1. Hexabromo Cyclododecane
2. Tetrabromo Bisphenol A (Allyl Ether)

Column: Alltech® Alltima™ C18, 5µm, 250 x 4.6mm (Part No. 88056)
Mobile Phase: Water:Acetonitrile (5:95)
Flow Rate: 1.0mL/min
Detector: ELSD

Standards

Standards Mix

CHROM
10696

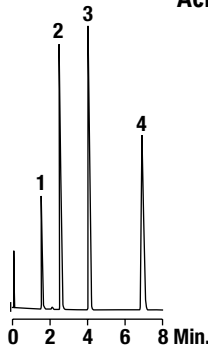


1. Nicotine
2. Quinine
3. Diphenhydramine
4. Nortriptyline
5. 2,4, Dichlorophenoxy Acetic Acid
6. 2,4, Dichlorophenoxy Propionic Acid
7. 2,4, Dichlorophenoxy Butyric Acid

Column: GraceSmart™ C18, 5µm, 150 x 4.6mm (Part No. 5138812)
Mobile Phase: 50mM Potassium Phosphate, pH3.0:Acetonitrile (50:50)
Detector: UV at 254nm

Acids, Bases and Neutrals

CHROM
10695

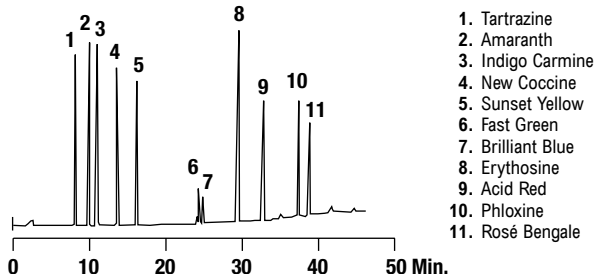


1. Uracil
2. Amitriptyline
3. Phenylvaleric Acid
4. Toluene

Column: GraceSmart™ C18, 5µm, 150 x 4.6mm (Part No. 5138812)
Mobile Phase: 50mM Potassium Phosphate, pH3.0:Acetonitrile (50:50)
Detector: UV at 254nm

Dyes

Color Additives - Dyes



1. Tartrazine
2. Amaranth
3. Indigo Carmine
4. New Coccine
5. Sunset Yellow
6. Fast Green
7. Brilliant Blue
8. Erythrosine
9. Acid Red
10. Phloxine
11. Rosé Bengale

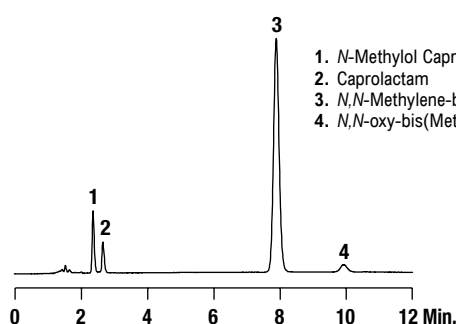
Column: Grom™ Sil 120 ODS-5 ST, 5µm, 150 x 4mm (Part No. 5113642)
Mobile Phase: A: 10mM Ammonium Phosphate, pH6.0:Methanol (90:10)
 B: 10mM Ammonium Phosphate, pH6.0:Methanol (20:30)
Gradient:

Time	0	40	60
%B	0	100	100

Flow Rate: 0.8mL/min
Detector: UV at 254nm

Solvents

Caprolactams

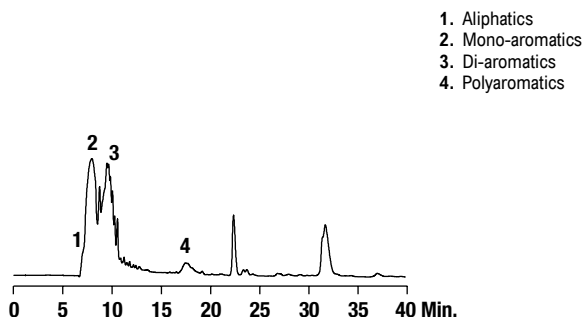


1. N-Methylol Caprolactam
2. Caprolactam
3. N,N-Methylene-bis(Caprolactam)
4. N,N-oxy-bis(Methylene)-Caprolactam

Column: Jones Genesis®, 4µm, 150 x 4.6mm (Part No. FM15960E)
Mobile Phase: Acetonitrile:20mM Phosphate, pH6.8 (22:78)
Flow Rate: 1.0mL/min
Detector: UV at 205nm

Fuels

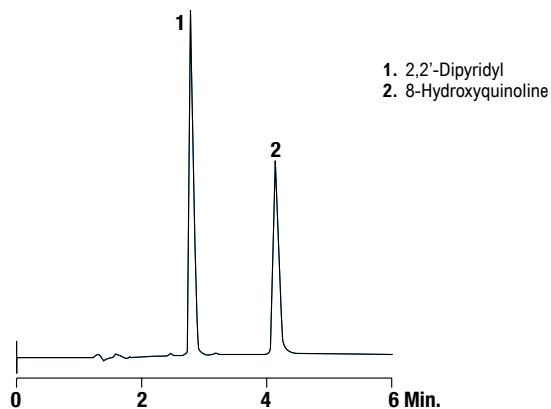
Petrochemicals



Column: Jones Genesis® Petro XL, 3µm, 250 x 4.6mm
(Part No. **FM25991E**)
Mobile Phase: Hexane
Flow Rate: 1.0mL/min
Detector: UV at 210nm

Chelators

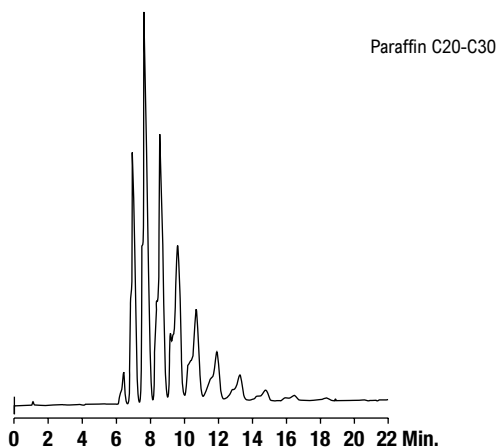
Metal Chelators

CHROM
8584

Column: Alltech® Alltima™ C18, 5µm, 150 x 4.6mm (Part No. **88052**)
Mobile Phase: 0.025M K₂HPO₄, pH7.0:Tetrahydrofuran:
Methanol (50:25:25)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Paraffins

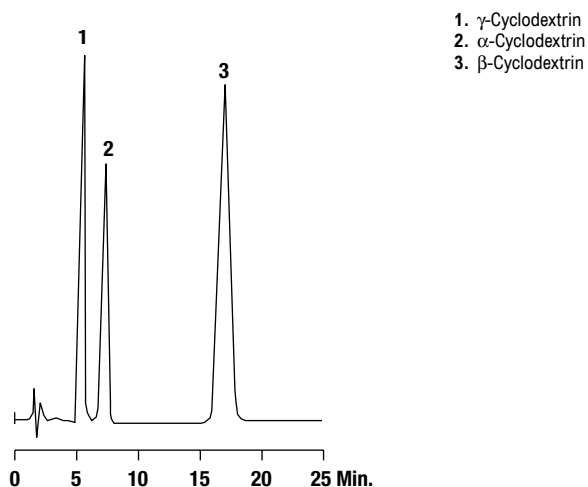
Paraffin Analysis

CHROM
10429

Column: Alltech® Alltima™ HP C18 HiLoad, 3µm, 100 x 4.6mm
(Part No. **87685**)
Mobile Phase: Acetonitrile:Dichloromethane (60:40)
Flow Rate: 1.0mL/min
Detector: ELSD

Cyclodextrins

Cyclodextrins



Column: Grom™ Sil 120 ODS-5 ST, 5µm, 150 x 4mm
(Part No. **5113642**)
Mobile Phase: Water:Methanol (95:5)
Flow Rate: 0.8mL/min
Detector: RI