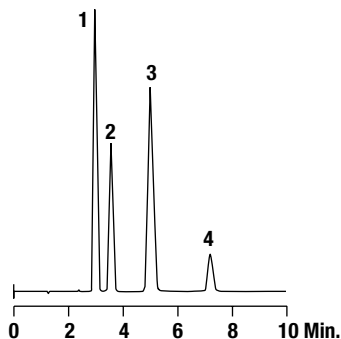


Analgesics

Anti-Inflammatories

CHROM
8156

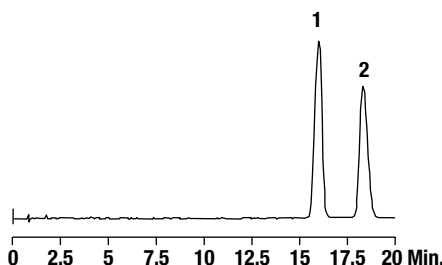


1. Naproxen
2. Acemetacin
3. Indomethacin
4. p-Xylene

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

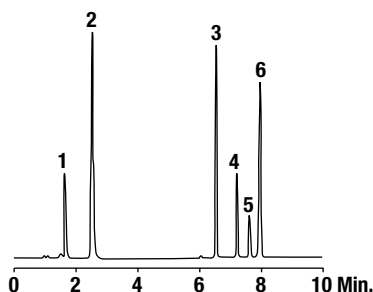


1. Valerophenone
2. Ibuprofen

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

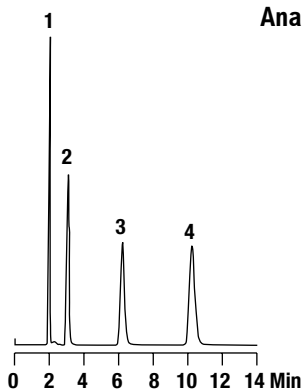
Column: Alltech® Alltima™ C8, 5µm, 150 x 4.6mm (Part No. 88072)
Mobile Phase: A: 0.05M K₂HPO₄, pH3.3 B: Methanol C: Acetonitrile
Gradient:

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

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

Analgesics

CHROM
9385

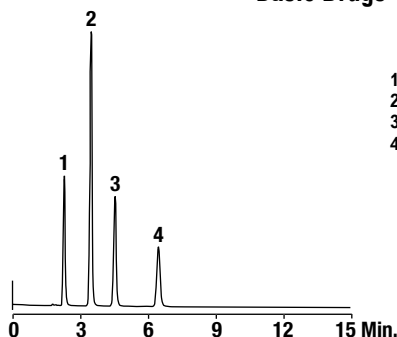


1. Aspirin
2. Acetaminophen
3. Naproxen
4. Fenoprofen

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

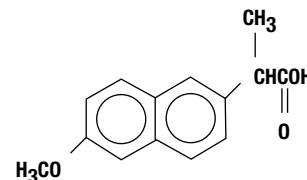
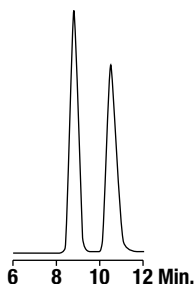


1. Procainamide
2. Acetaminophen
3. Theophylline
4. Caffeine

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



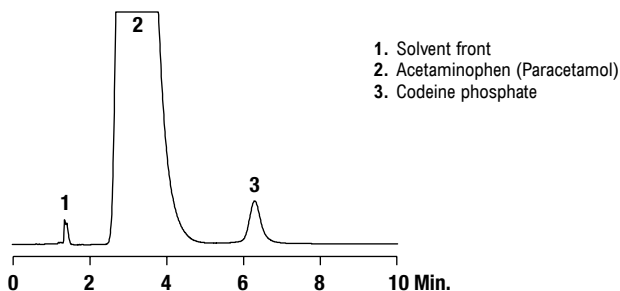
Column: Astec™ Chirobiotic® V™, 250 x 4.6mm (Part No. 11024)
Mobile Phase: 0.1% Triethylammonium Acetate (TEAA), pH7.0: Tetrahydrofuran (90:10)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

more applications

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

Analgesics

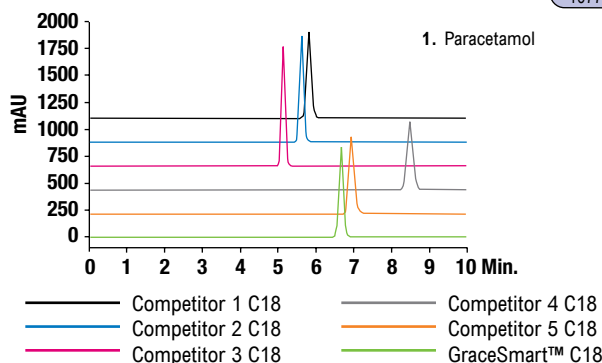
Analgesics



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

Paracetamol Effervescent Tablets on Chinese Pharmacopeia Assay

CHROM-10770

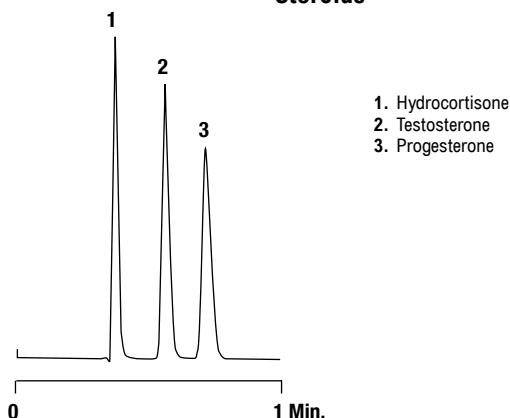


Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: Phosphate Buffer:Methanol (80:20)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Steroids

Steroids

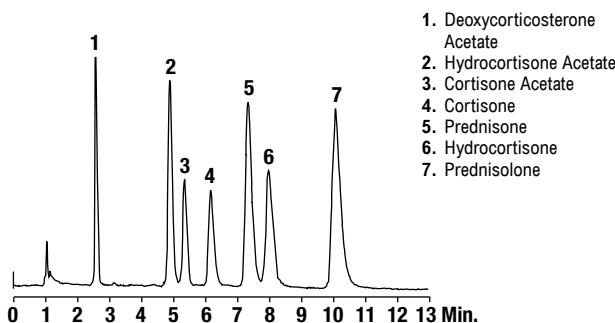
CHROM-9392



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

Corticosteroids

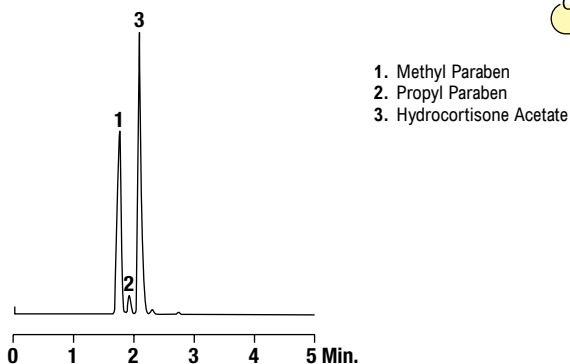
CHROM-10391



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

Hydrocortisone Acetate Cream

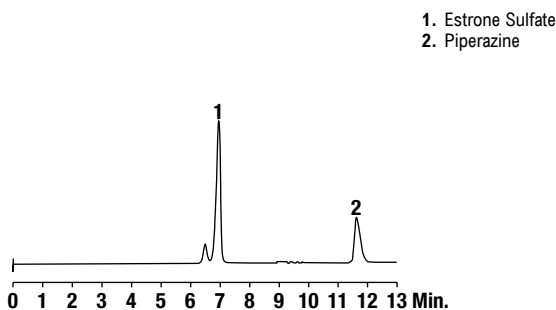
CHROM-9463



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

Estropiate Sample

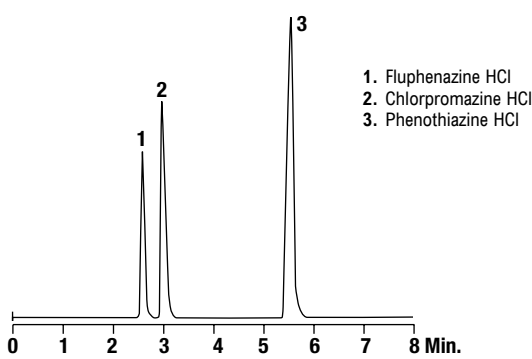
CHROM-10423



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

Antidepressants

Tricyclic Amines

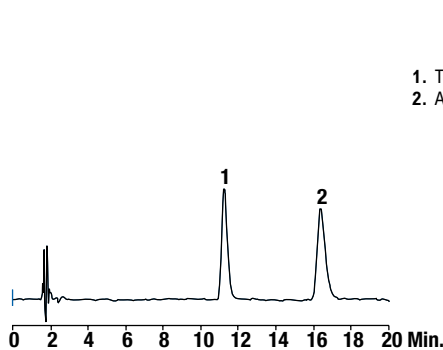


CHROM 9105

- 1. Fluphenazine HCl
- 2. Chlorpromazine HCl
- 3. Phenothiazine HCl

Column: Alltech® Alltima™ CN, 3µm, 150 x 4.6mm (Part No. 81189)
Mobile Phase: 0.01M KH₂PO₄, pH2.6:Acetonitrile (50:50)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Alprazolam and Triazolam by the USP XXII Method

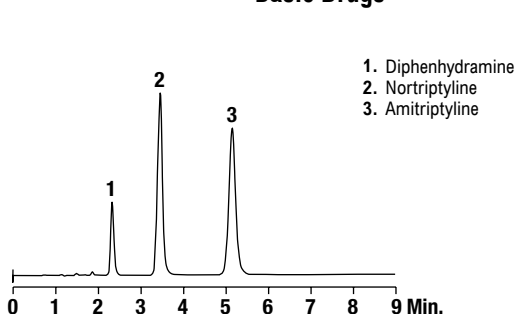


CHROM 7368

- 1. Triazolam
- 2. Alprazolam

Column: Alltech® Alltima™ Silica, 5µm, 300 x 4.6mm (Custom)
Mobile Phase: Acetonitrile:Chloroform:i-Butyl Alcohol:Water:Glacial Acetic Acid (85:8:5:2:0.05)
Flow Rate: 2.0mL/min
Detector: UV at 254nm

Basic Drugs

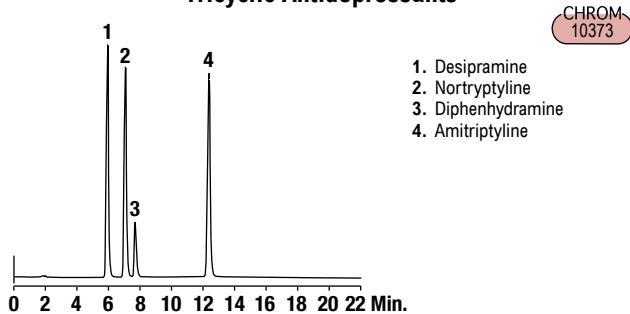


CHROM 10353

- 1. Diphenhydramine
- 2. Nortriptyline
- 3. Amitriptyline

Column: Alltech® Alltima™ HP C18 Amide, 5µm, 150 x 4.6mm (Part No. 87733)
Mobile Phase: 0.025M Potassium Phosphate Buffer, pH7.0:Methanol (15:85)
Flow Rate: 1mL/min
Detector: UV at 254nm

Tricyclic Antidepressants



CHROM 10373

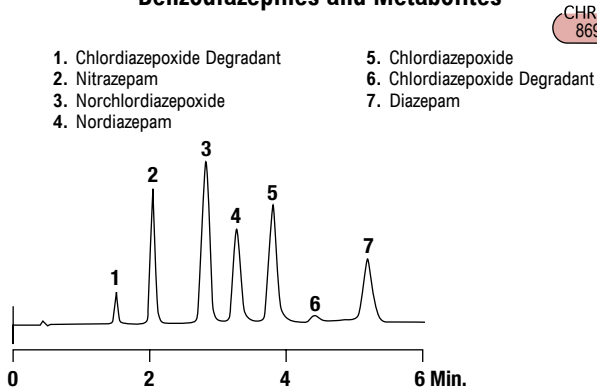
- 1. Desipramine
- 2. Nortriptyline
- 3. Diphenhydramine
- 4. Amitriptyline

Column: Alltech® Alltima™ HP C8, 5µm, 150 x 4.6mm (Part No. 87751)
Mobile Phase: A: 0.025M Potassium Phosphate Buffer, pH7.0
 B: Methanol
Gradient:

Time:	0	8	20
%B:	60	75	75

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

Benzodiazepines and Metabolites

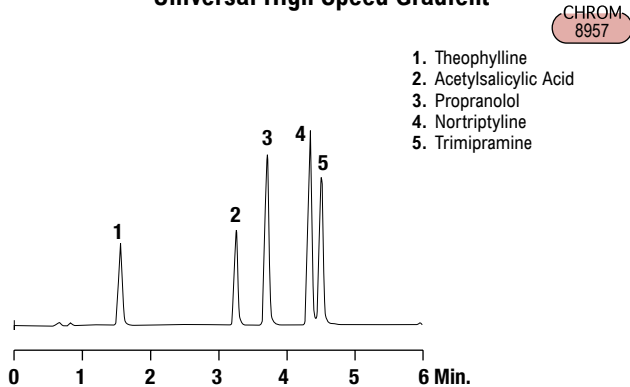


CHROM 8691

- 1. Chlordiazepoxide Degradant
- 2. Nitrazepam
- 3. Norchlordiazepoxide
- 4. Nordiazepam
- 5. Chlordiazepoxide
- 6. Chlordiazepoxide Degradant
- 7. Diazepam

Column: Alltech® Platinum™ EPS C18, 3µm, 53 x 7mm Rocket™ (Part No. 50573)
Mobile Phase: 0.05M Ammonium Acetate, pH5.5:Acetonitrile (65:35)
Flow Rate: 3.0mL/min
Detector: UV at 254nm

Universal High Speed Gradient



CHROM 8957

- 1. Theophylline
- 2. Acetylsalicylic Acid
- 3. Propranolol
- 4. Nortriptyline
- 5. Trimipramine

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 Acetonitrile
Gradient:

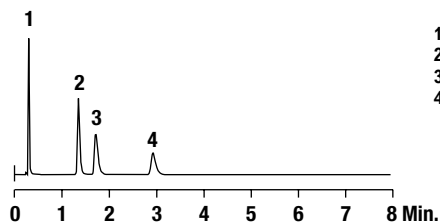
Time:	0	6
%B:	10	90

Flow Rate: 2.5mL/min
Detector: ELSD

Antidepressants

Propranolol

CHROM
10719

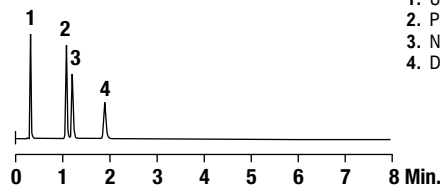


1. Uracil
2. Propranolol
3. Naphthalene
4. Dipropylphthalate

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

Propranolol

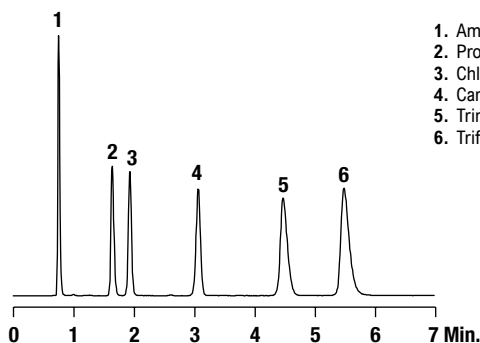
CHROM
10720



1. Uracil
2. Propranolol
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



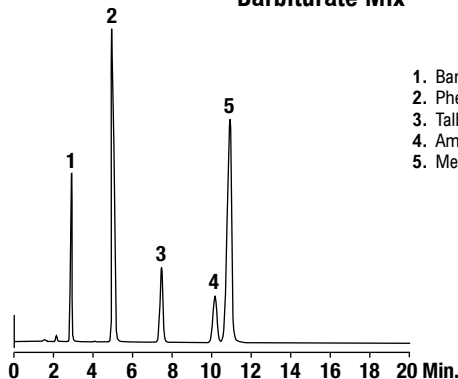
1. Amiloride
2. Propranolol
3. Chloramphenicol
4. Carbamazepine
5. Trimipramine
6. Trifluoperazine

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

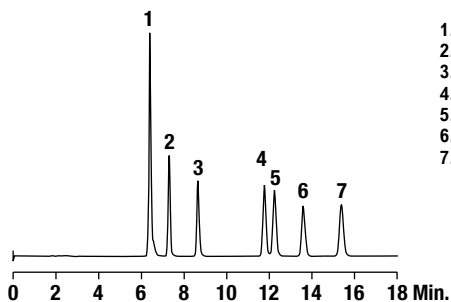


1. Barbitol
2. Phenobarbital
3. Talbutal
4. Amobarbital
5. Mephobarbital

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

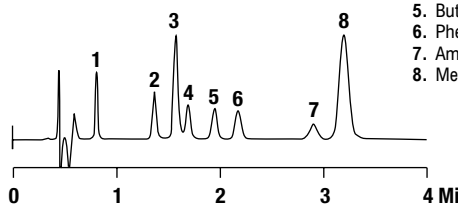


1. Phenobarbital
2. Butobarbital
3. Butalbital
4. Pentobarbital
5. Amobarbital
6. Mephobarbital
7. Secobarbital

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

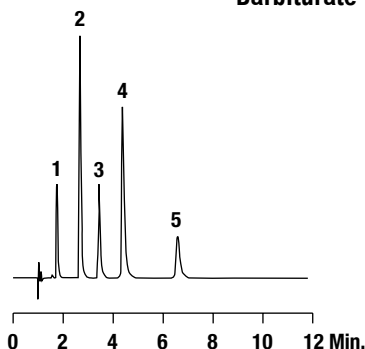


1. Barbitol
2. Butalbital
3. Aprobarbital
4. Talbutal
5. Butobarbital
6. Phenobarbital
7. Amobarbital
8. Mephobarbital

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



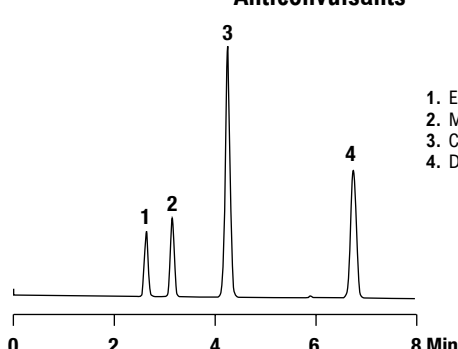
CHROM
10164

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

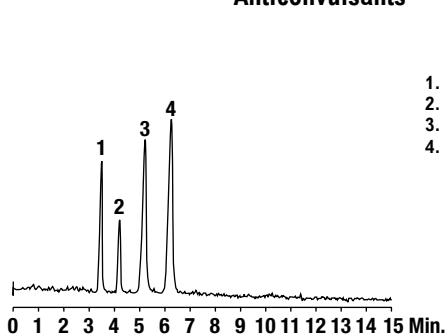


CHROM
9394

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

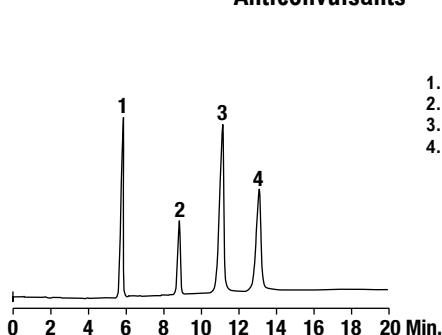


CHROM
10348

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

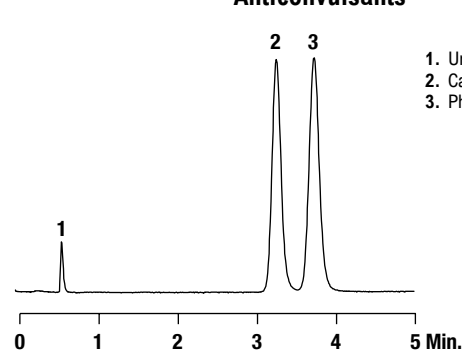


CHROM
10349

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

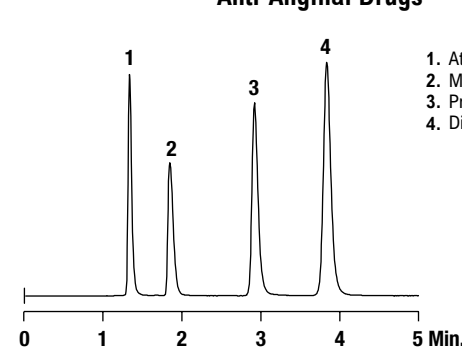


1. Uracil
2. Carbamazepine
3. Phenytoin

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

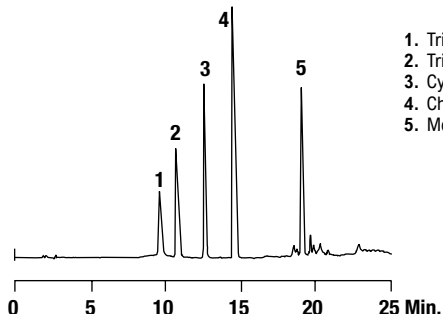
more applications

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

Antihistamines

Antihistamines

CHROM
7232



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

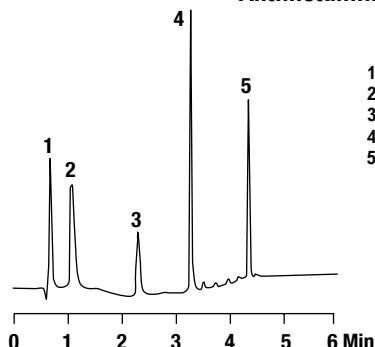
Column: Alltech® Alltima™ C8, 5µm, 250 x 4.6mm (Part No. 88076)
Mobile Phase: A: 0.05M Potassium Phosphate, pH3.2
 B: Acetonitrile
Gradient:

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

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

Antihistamines

CHROM
10163



1. Tripelennamine
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.

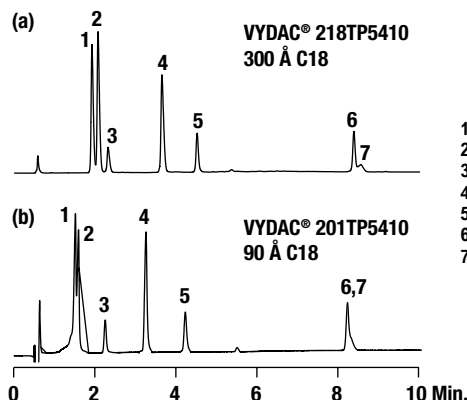
Column: Vydac® C18, 300Å, 5µm, 100 x 4.6mm (Part No. 218TP5410)
Mobile Phase: A: 0.1% Trifluoroacetic Acid in Water
 B: 0.1% Trifluoroacetic Acid in Acetonitrile
Gradient (A):

Time:	0	10
%B:	5	35

Gradient (B):

Time:	0	10
%B:	10	40

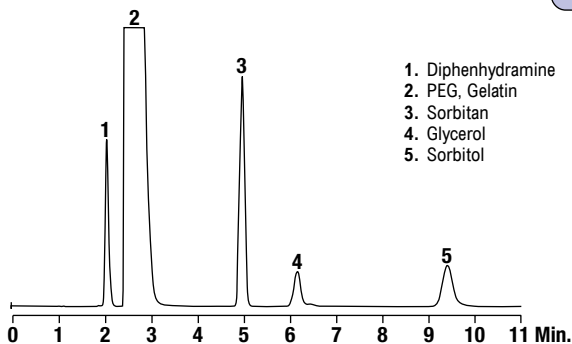
Flow Rate: 2.5mL/min
Detector: UV at 260nm



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

OTC Antihistamine and Excipients

CHROM
10275

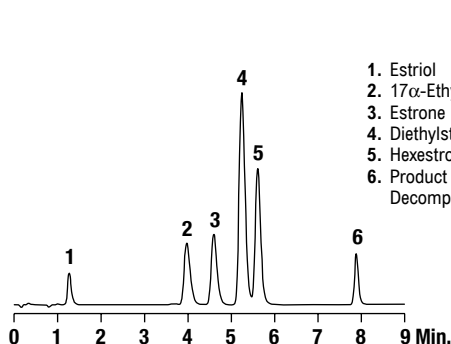


1. Diphenhydramine
2. PEG, Gelatin
3. Sorbitan
4. Glycerol
5. Sorbitol

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:

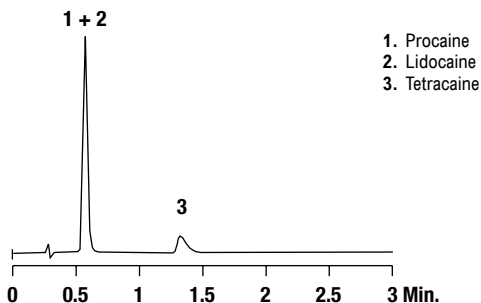
Time:	0	8
%B:	40	90

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

Anesthetics

Basic Pharmaceuticals

CHROM
10737

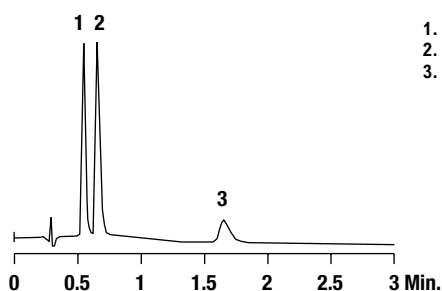


1. Procaine
2. Lidocaine
3. Tetracaine

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

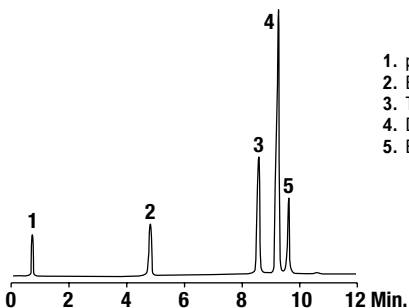


1. Procaine
2. Lidocaine
3. Tetracaine

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



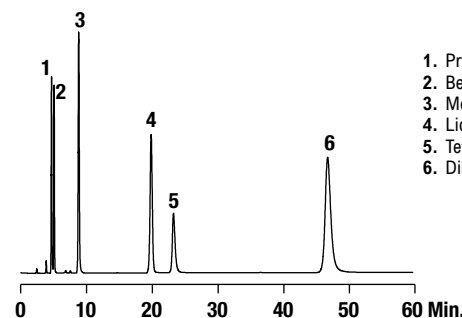
1. p-Aminobenzoic Acid
2. Benzocaine
3. Tetracaine
4. Dibucaine
5. Butacaine

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



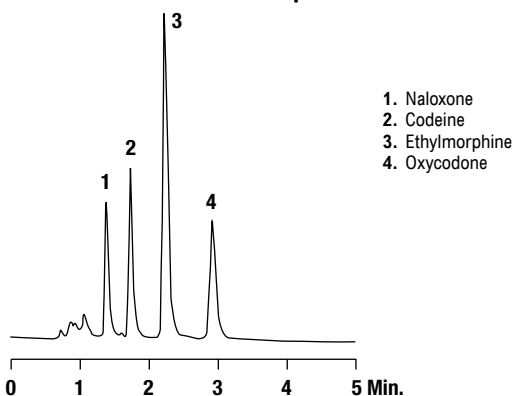
1. Procaine
2. Benzocaine
3. Mepivacaine
4. Lidocaine
5. Tetracaine
6. Dibucaine

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

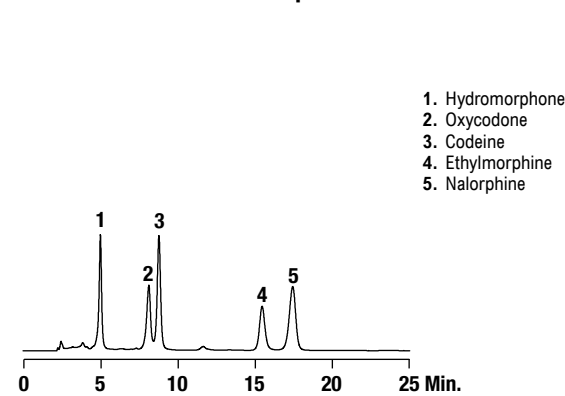
CHROM
10165



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

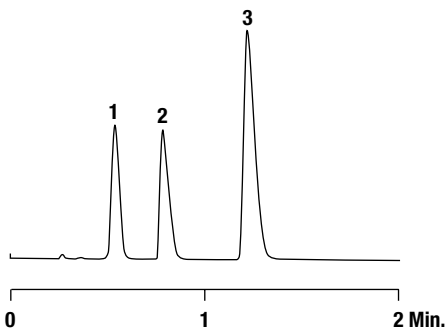
more applications

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

Anti-Hypertensives

Antihypertensives

CHROM
9395

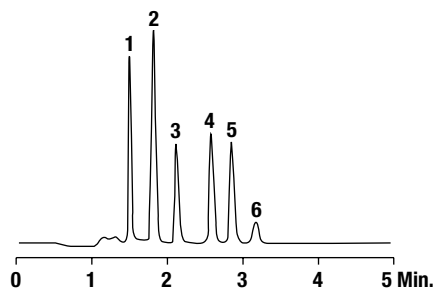


1. Metoprolol
2. Oxprenolol
3. Propranolol

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

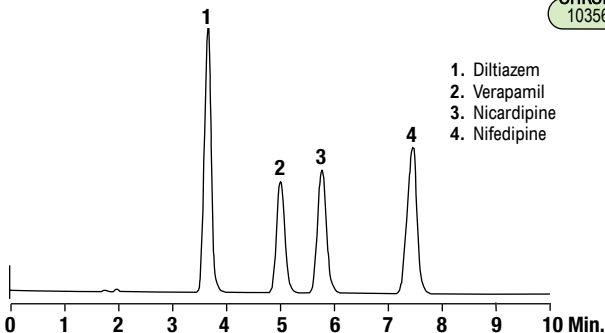


1. Labetalol
2. Acebutolol
3. Oxprenolol
4. Lidocaine
5. Alprenolol
6. Propranolol

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

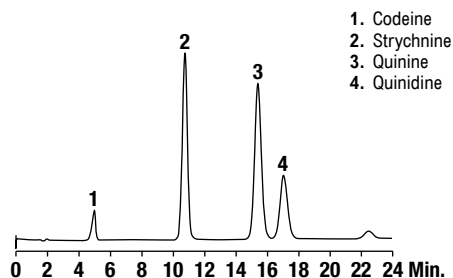


1. Diltiazem
2. Verapamil
3. Nicardipine
4. Nifedipine

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



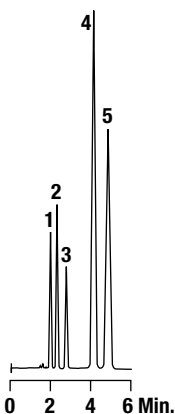
1. Codeine
2. Strychnine
3. Quinine
4. Quinidine

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



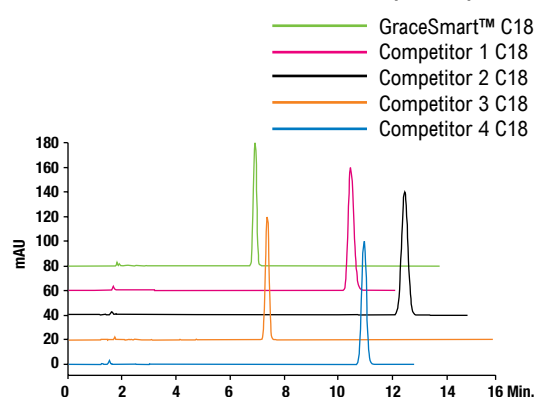
1. Barbital
2. Phenobarbital
3. Butalbital
4. Oxazepam
5. Triazolam

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

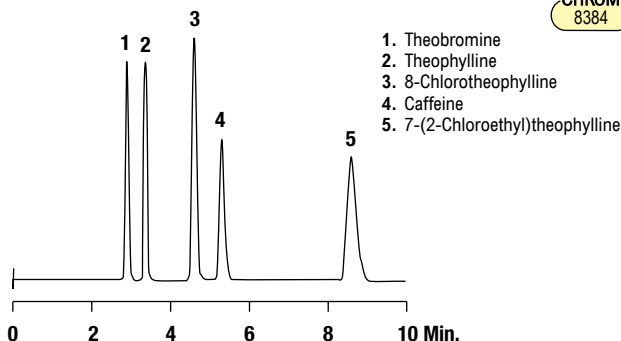


Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: 0.39% Sodium Phosphate Monobasic, pH4.5: Acetonitrile (35:65)
Flow Rate: 1.5mL/min
Detector: UV at 238nm

Anti-Asthmatics

Methylxanthines

CHROM 8384

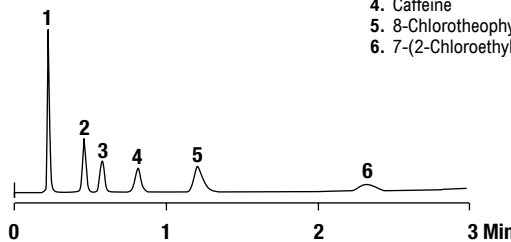


- 1. Theobromine
- 2. Theophylline
- 3. 8-Chlorotheophylline
- 4. Caffeine
- 5. 7-(2-Chloroethyl)theophylline

Column: Alltech® Platinum™ EPS C18, 100Å, 5µm, 150 x 4.6mm (Part No. 32214)
Mobile Phase: Water:Acetonitrile:Methanol:Glacial Acetic Acid (60:10:30:1)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Theophylline & Metabolites

CHROM 8679



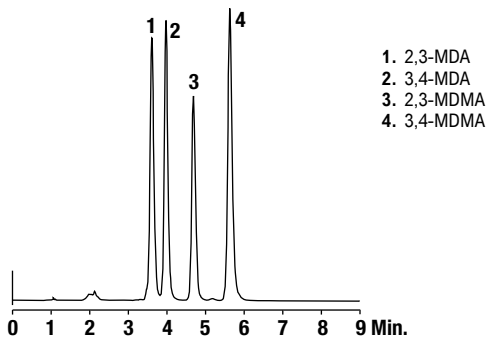
- 1. Xanthine
- 2. Theobromine
- 3. Theophylline
- 4. Caffeine
- 5. 8-Chlorotheophylline
- 6. 7-(2-Chloroethyl)theophylline

Column: Alltech® Platinum™ EPS C18, 3µm, 33 x 7mm Rocket™ (Part No. 50575)
Mobile Phase: 0.010M Sodium Acetate, pH4.0:Methanol (70:30)
Flow Rate: 5.0mL/min
Detector: UV at 254nm

Amphetamines

MDA and MDMA Analogs

CHROM 10427

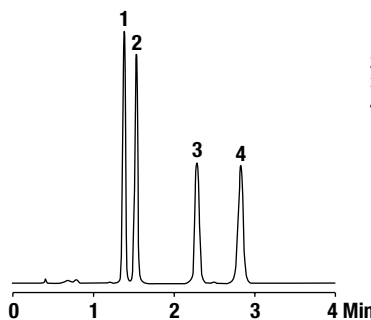


- 1. 2,3-MDA
- 2. 3,4-MDA
- 3. 2,3-MDMA
- 4. 3,4-MDMA

Column: Alltech® Alltima™ HP Silica, 3µm, 150 x 4.6mm (Part No. 87786)
Mobile Phase: 1% Ammonium Hydroxide in Methanol:Acetonitrile (75:25)
Flow Rate: 1.0mL/min
Column Temp: 25°C
Detector: UV at 280nm

MDA & MDMA Analogs

CHROM 10014



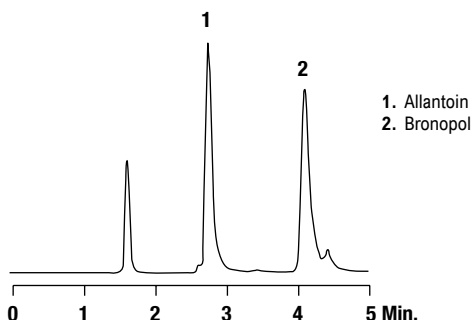
- 1. 2,3-MDA
- 2. 3,4-MDA
- 3. 2,3-MDMA
- 4. 3,4-MDMA

Column: Alltech® Alltima™ Silica, 3µm, 100 x 4.6mm (Part No. 81404)
Mobile Phase: 1% Ammonium Hydroxide in Methanol:Acetonitrile (25:75)
Flow Rate: 2.0mL/min
Detector: UV at 280nm

Antiseptics

Highly Polar Cosmetic Ingredients

CHROM 10166

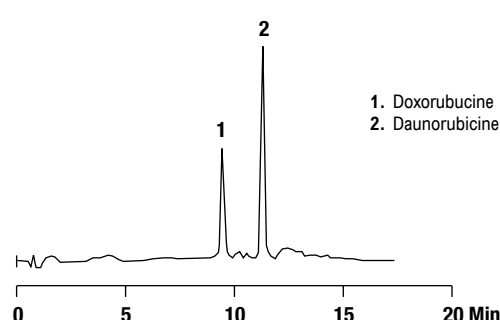


- 1. Allantoin
- 2. Bronopol

Column: ZirChrom® CARB, 3µm, 100 x 4.6mm (Part No. ZR01-1046)
Mobile Phase: Water:Acetonitrile (80:20)
Flow Rate: 1.0mL/min
Detector: UV at 200nm

Chemotherapeutics

Rubicines - Chemotherapeutics



- 1. Doxorubicine
- 2. Daunorubicine

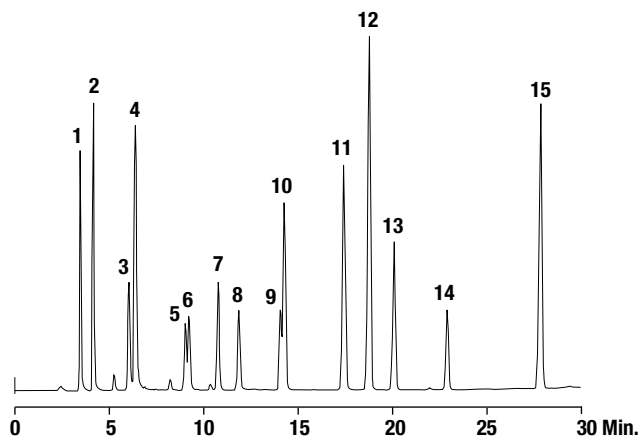
Column: Grom™ Sil 120 ODS-3 CP, 5µm, 125 x 3mm (Part No. 5113604)
Mobile Phase: A: 25mM Sodium Phosphate, pH2.2 B: Acetonitrile
Gradient:

Time:	0	12	20
%B:	0	60	60

Flow Rate: 0.45mL/min
Detector: Fluorescence at 480nm (exc.), 560nm (em.)

hplc applications

Diuretics



Diuretics and Uricosuric Agents

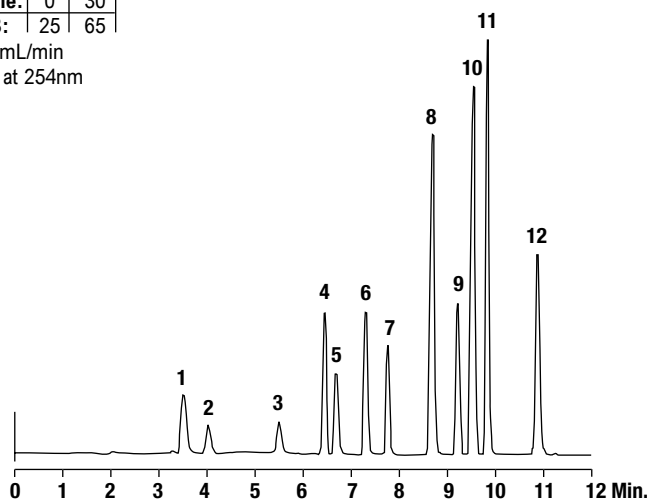
1. Amiloride HCl Hydrate
2. Acetazolamide
3. Hydrochlorothiazide
4. Triamterene
5. Chlorthalidone
6. Furosemide
7. Hydroflumethiazide
8. Clopamide
9. Ethacrynic Acid
10. Trichloromethiazide
11. Probenecid
12. Indapamide
13. Bumetanide
14. Bendroflumethiazide
15. Spironolactone

CHROM
10246

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



Doping Agents

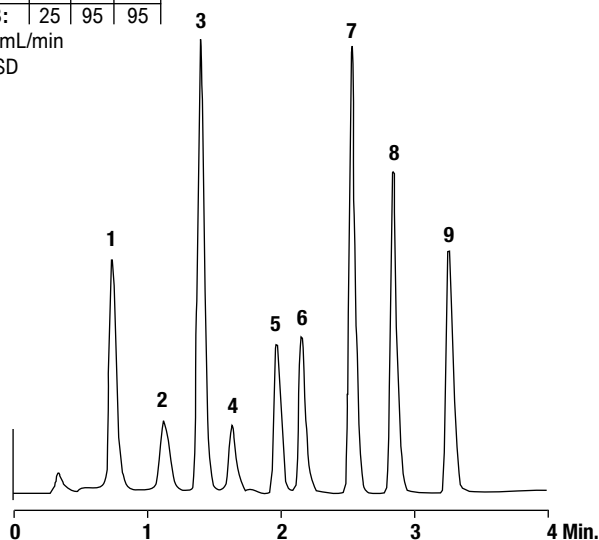
1. Amiloride HCl Hydrate
2. Acetazolamide
3. Hydrochlorothiazide
4. Chlorthalidone
5. Hydroflumethiazide
6. Clopamide
7. Trichloromethiazide
8. Indapamide
9. Bendroflumethiazide
10. Bumetanide
11. Probenecid
12. Spironolactone

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:

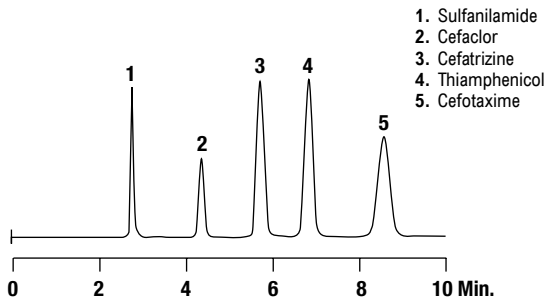
Time:	0	4
%B:	20	95

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

Antibiotics

Antibacterials

CHROM 8711

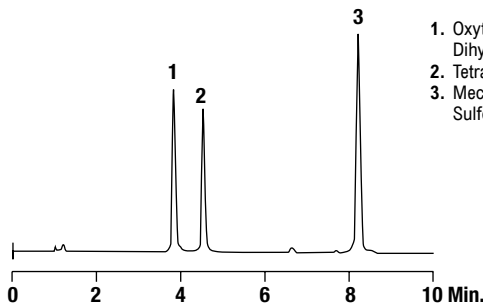


1. Sulfanilamide
2. Cefaclor
3. Cefatrizine
4. Thiamphenicol
5. Cefotaxime

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



1. Oxytetracycline Dihydrate
2. Tetracycline HCl
3. Meclocycline Sulfosalicylate Salt

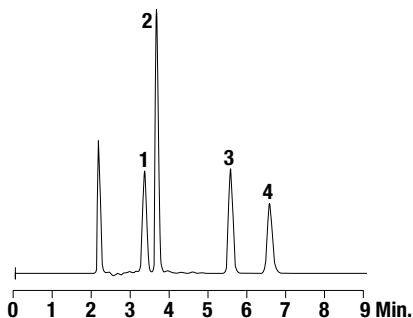
Column: Alltech® Alltima™ C18, 3µm, 100 x 4.6mm (Part No. 81382)
Mobile Phase: A: 0.05M KH₂PO₄, pH3.0 B: Acetonitrile
Gradient:

Time:	0	10
%B:	15	40

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

Aminoglycoside Antibiotics

CHROM 9210

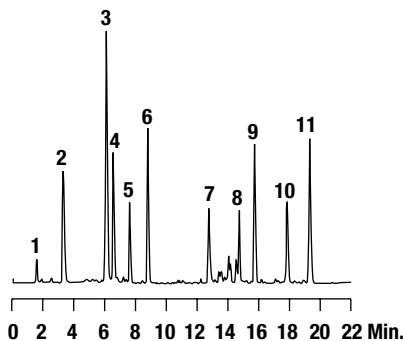


1. Streptomycin
2. Amikacin
3. Tobramycin
4. Neomycin

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



1. Neomycin
2. Amoxicillin
3. Vancomycin
4. Cefatrizine
5. Metampicillin
6. Cefotaxime
7. Unknown
8. Bacitracin
9. Piperacillin
10. Bacampicillin
11. Oxacillin

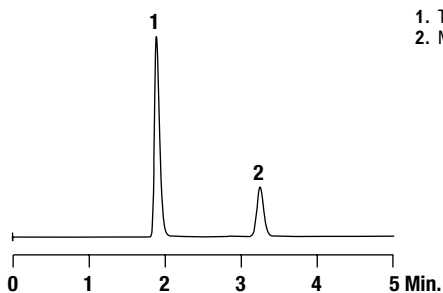
Column: Alltech® Prevail™ C18, 5µm, 150 x 4.6mm (Part No. 99208)
Mobile Phase: A: 0.025M KH₂PO₄, pH3.0 B: Acetonitrile
Gradient:

Time:	0	15	22
%B:	10	40	40

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

Tylosin and Monensin

CHROM 10319

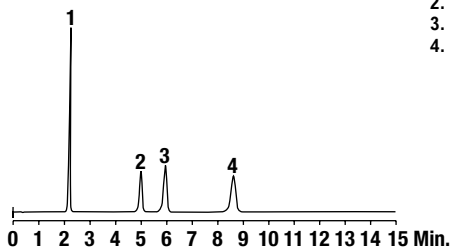


1. Tylosin (400ppm)
2. Monensin (180ppm)

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



1. Sulfanilamide
2. Sulfamerazine
3. Sulfamethazine
4. Sulfamethizole

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

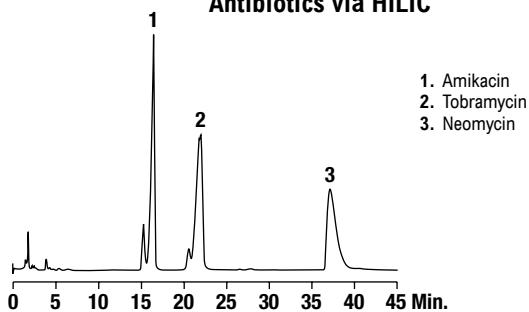
more applications

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

Antibiotics

Antibiotics via HILIC

CHROM 10626

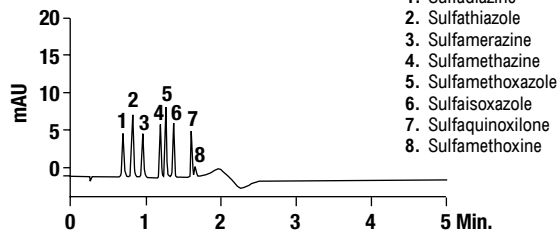


1. Amikacin
2. Tobramycin
3. Neomycin

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



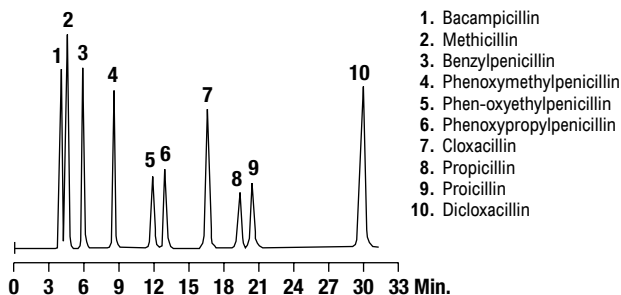
1. Sulfadiazine
2. Sulfathiazole
3. Sulfamerazine
4. Sulfamethazine
5. Sulfamethoxazole
6. Sulfaisoxazole
7. Sulfaquinolone
8. Sulfamethoxine

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

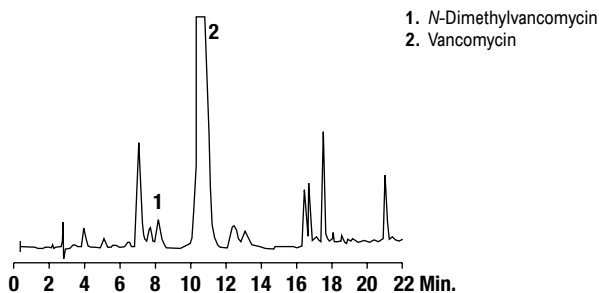
Penicillin Antibiotics



1. Bacampicillin
2. Methicillin
3. Benzylpenicillin
4. Phenoxymethylpenicillin
5. Phen-oxethylpenicillin
6. Phenoxypenicillin
7. Cloxacillin
8. Propicillin
9. Procicillin
10. Dicloxacillin

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

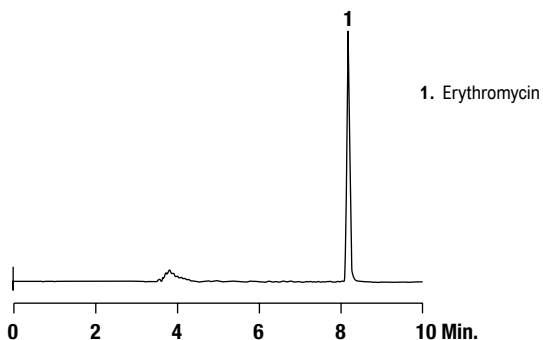


1. N-Dimethylvancomycin
2. Vancomycin

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

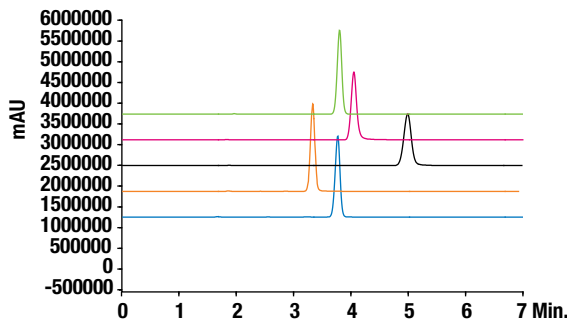


1. Erythromycin

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.)

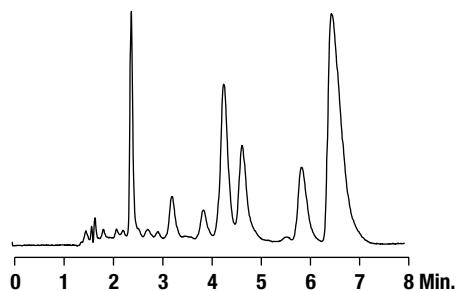
CHROM 10697



- GraceSmart™ C18 Column
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18

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

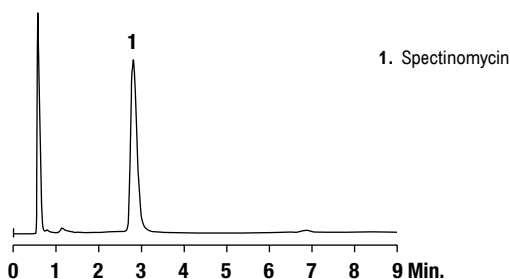
Bacitracin



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

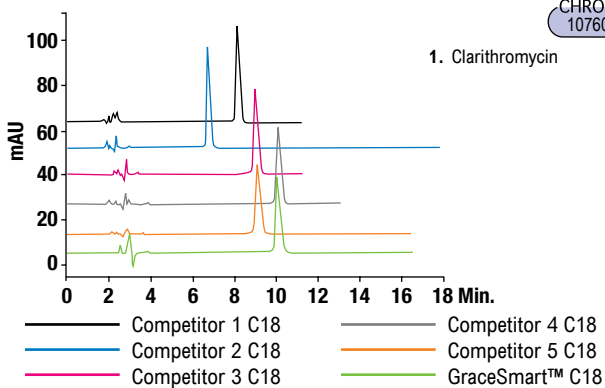
CHROM 10680



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

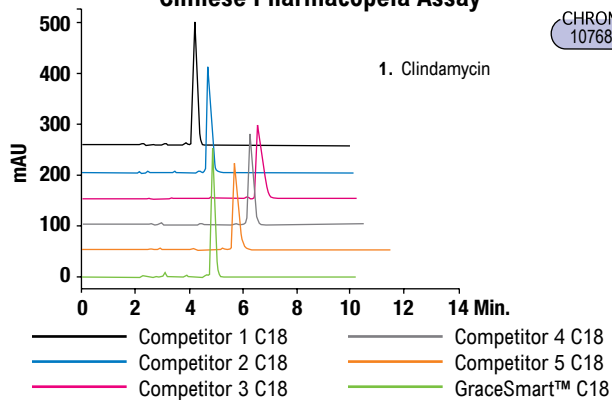
CHROM 10760



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

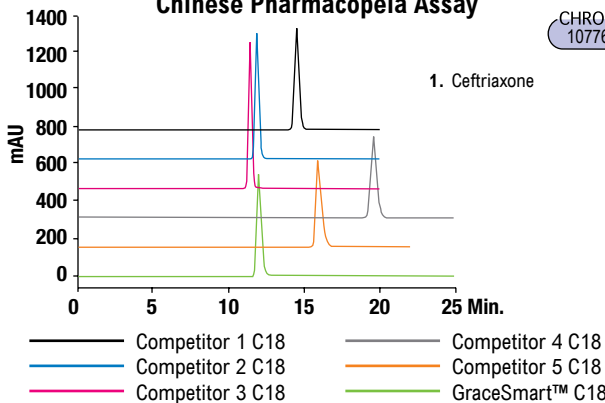
CHROM 10768



Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. **5138810**)
Mobile Phase: Methanol:Ammonium Dihydrogen Phosphate Solution (Dissolve 2.88g Ammonium Dihydrogen Phosphate in 1000mL Water, adjust with Phosphoric Acid to pH3.0) 300:210
Flow Rate: 1.0mL/min
Detector: UV at 214nm

Ceftriaxone Sodium on Chinese Pharmacopeia Assay

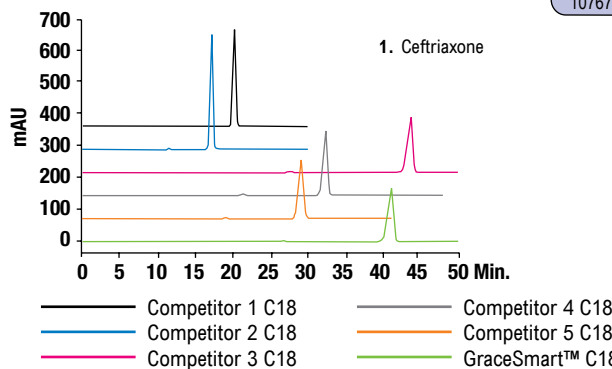
CHROM 10776



Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. **5138810**)
Mobile Phase: 0.02mol/L *n*-Octylamine:Acetonitrile (73:27)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Cefradine on Chinese Pharmacopeia Assay

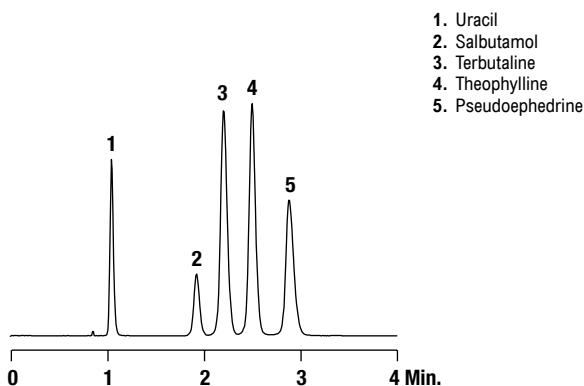
CHROM 10767



Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. **5138810**)
Mobile Phase: Water:Methanol:3.86% Sodium Acetate:4% Acetic Acid (1564:400:30:6)
Flow Rate: 0.9mL/min
Detector: UV at 254nm

Bronchodilators

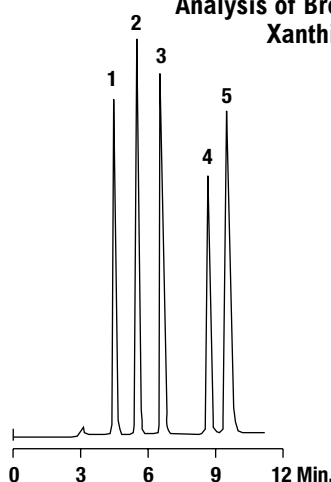
Bronchodilators



1. Uracil
2. Salbutamol
3. Terbutaline
4. Theophylline
5. Pseudoephedrine

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

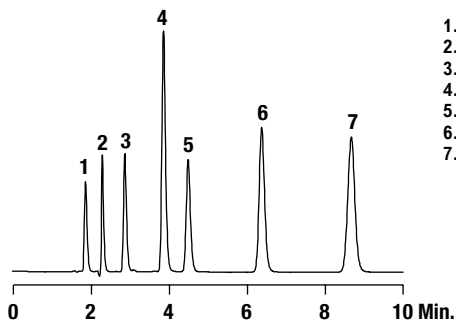
Analysis of Broncholytics - Xanthines



1. Theobromine
2. Theophylline
3. β-Hydroxyethyltheophylline
4. 7-β-Hydroxypropyltheophylline
5. Caffeine

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

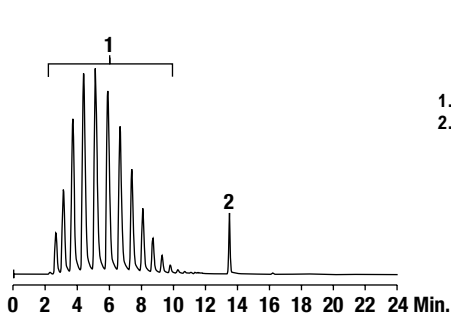


1. Uracil
2. Theobromine
3. Impurity
4. Sodium Benzoate
5. Theophylline
6. β-Ethoxytheophylline
7. Caffeine

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



1. PEG
2. Clotrimazole

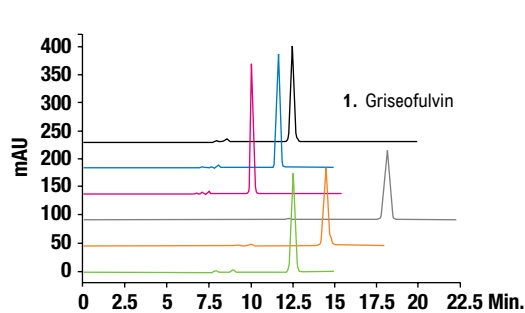
CHROM 10447

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



- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18
- GraceSmart™ C18

CHROM 10772

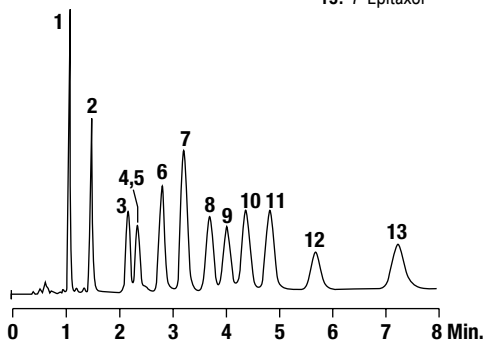
Column: GraceSmart™ C18, 5µm, 250 x 4.6mm (Part No. 5138810)
Mobile Phase: 0.05mol/L Potassium Dihydrogen Phosphate: Acetonitrile:Methanol (57:38:5)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Taxols

Taxol® and Related Taxanes in Yew

CHROM
9221

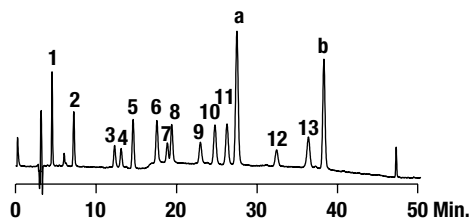
- 1. 10-Deacetylbaccatin III
- 2. Baccatin III
- 3. 7-Xylosyl-10-deacetyltaxol B
- 4. Taxinine M
- 5. 7-Xylosyl-10-deacetyltaxol
- 6. 7-Xylosyl-10-deacetyltaxol C
- 7. 10-Deacetyltaxol
- 8. 7-Xylosyltaxol
- 9. Cephalomannine (Taxol® B)
- 10. 7-Epi-10-deacetyltaxol
- 11. Taxol®
- 12. Taxol® C
- 13. 7-Epitaxol



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

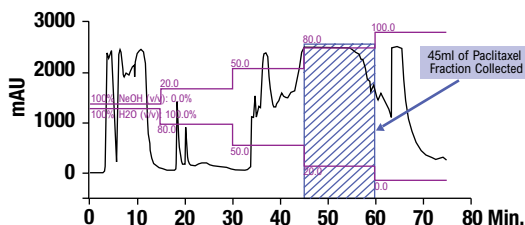


Column: Vydac® C18, 5µm, 250 x 4.6mm (Part No. 218MS54)
Mobile Phase: A: 50mM Sodium Acetate, pH6.8 B: Acetonitrile
Gradient:

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

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

Preparative Paclitaxel Purification

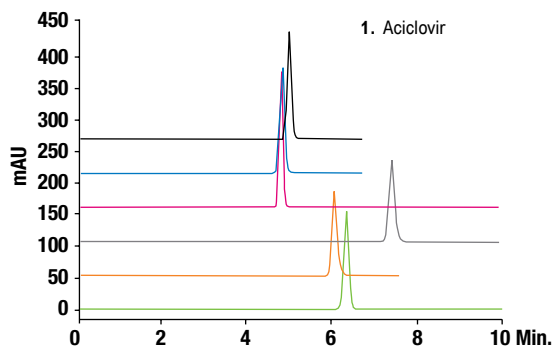


Silica: Grace® Davisil® C18, 50µm (Part No. 5134095)
Column: 10mm i.d. x 200mm Length
Sample: 10g of powdered yew bark extract
Mobile Phase: See Chromatogram
Detector: UV at 230nm

Antiviral

Aciclovir Assay on Chinese Pharmacopeia

CHROM
10764



- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18
- GraceSmart™ C18

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

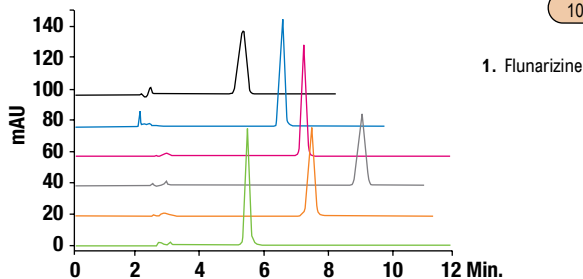
more applications

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

Calcium Channel Blockers

Flunarizine Hydrochloride Capsules on Chinese Pharmacopeia Assay

CHROM 10761

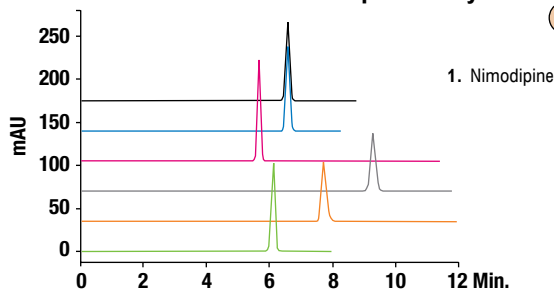


— Competitor 1 C18 — Competitor 4 C18
 — Competitor 2 C18 — Competitor 5 C18
 — Competitor 3 C18 — GraceSmart™ C18

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



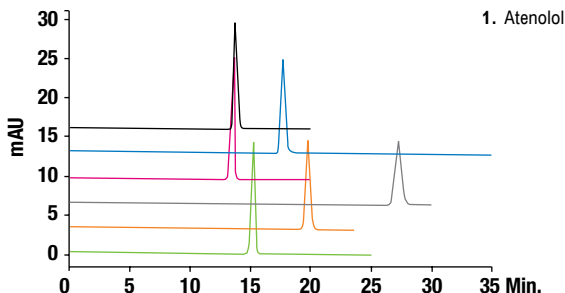
— Competitor 1 C18 — Competitor 4 C18
 — Competitor 2 C18 — Competitor 5 C18
 — Competitor 3 C18 — GraceSmart™ C18

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



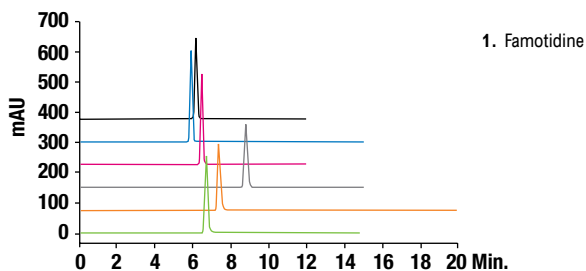
— Competitor 1 C18 — Competitor 4 C18
 — Competitor 2 C18 — Competitor 5 C18
 — Competitor 3 C18 — GraceSmart™ C18

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



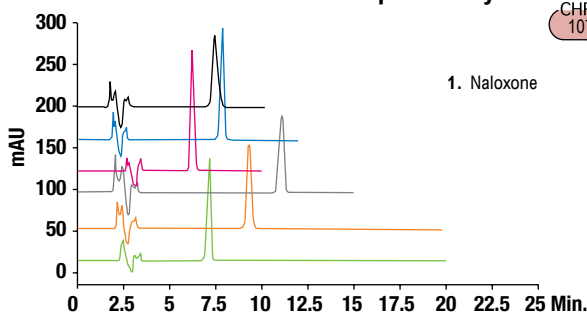
— Competitor 1 C18 — Competitor 4 C18
 — Competitor 2 C18 — Competitor 5 C18
 — Competitor 3 C18 — GraceSmart™ C18

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

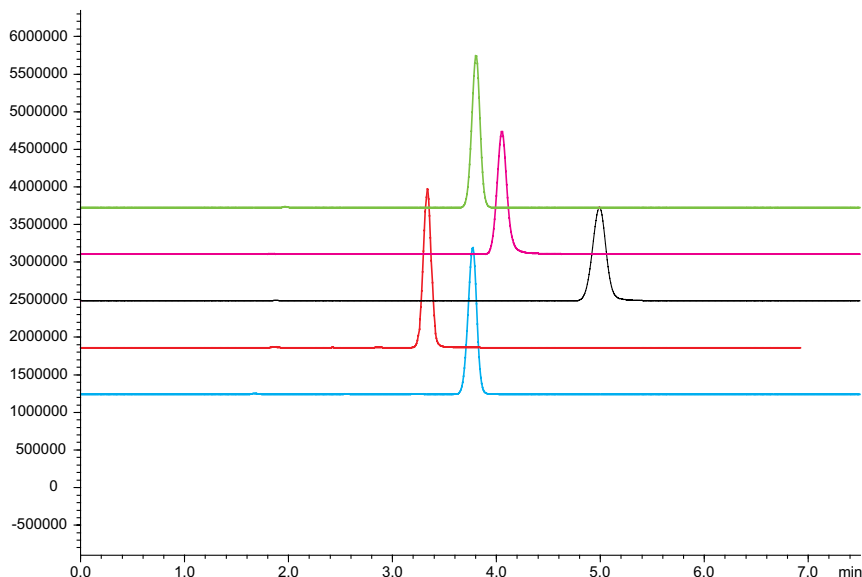
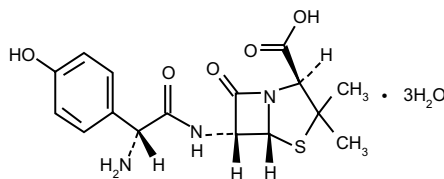


— Competitor 1 C18 — Competitor 4 C18
 — Competitor 2 C18 — Competitor 5 C18
 — Competitor 3 C18 — GraceSmart™ C18

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

Amoxicillin (U.S.P.)

On GraceSmart™ HPLC Column



- GraceSmart™ C18 Part # 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18

Test condition (as USP assay)

Test sample: 1.2mg/ml Amoxicillin in 0.05 N monobasic potassium phosphate (adjusted with 45% (w/w) solution of potassium hydroxide to a pH of 5.0 ± 0.1)

Column: 4.6 x 250mm C18

Flow: 1.5ml/min

Eluent: Isocratic, 0.05 N monobasic potassium phosphate (adjusted with 45% (w/w) solution of potassium hydroxide to a pH of 5.0 ± 0.1) : acetonitrile 96:4

Detection: Absorbance, 230nm

Column temp. : 30°C

Injection Volume: 10µl

	USP Spec	GraceSmart™ C18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18
Ret. Time (min)	N/A	3.800	4.050	4.988	3.333	3.768
Theoretical plates	≥1700	8543	7216	6230	7049	7680
Tailing Factor	≤2.5	1.015	1.180	1.041	1.034	0.979
k'	1.1 ≤ k' ≤ 2.8	1.2	1.6	2.3	0.99	1.6

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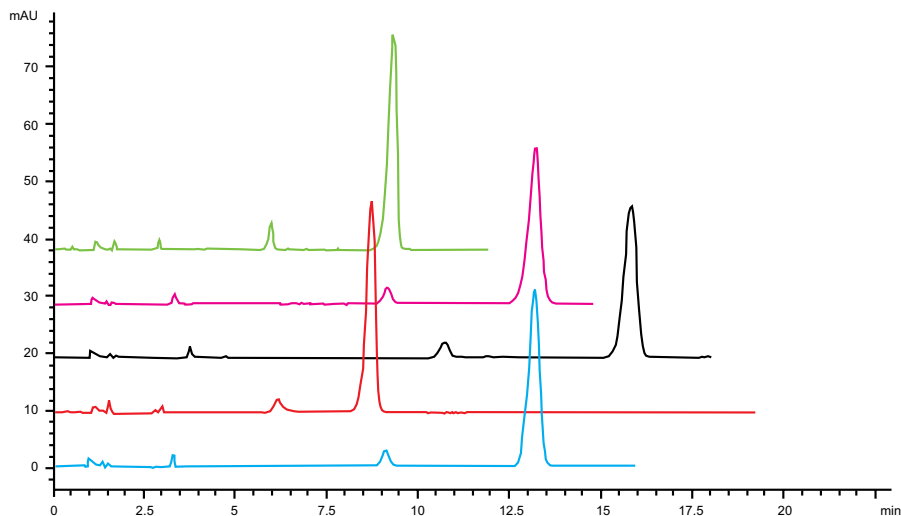
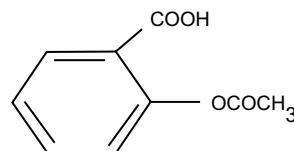
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Aspirin Tablets (U.S.P)

On GraceSmart™ HPLC Column



- GraceSmart™ Part # 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18

Test condition (as USP assay)

Test sample: 0.5mg/ml Aspirin, 0.015mg/ml Salicylic Acid in acetonitrile and formic acid (99:1)

Column: 4.6 x 250mm C18

Flow: 2ml/min

Eluent: Isocratic, 2g sodium 1-heptanesulfonate in a mixture of 850ml water and 150ml acetonitrile (adjust with glacial acetic acid to a pH of 3.4)

Detection: Absorbance, 280nm

Column temp. : 30°C

Injection Volume: 10µl

	USP Spec	GraceSmart™ C18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18
Aspirin Peak Retention Time (min)	N/A	9.325	13.213	15.827	8.720	13.195
Salicylic Acid Peak Relative Retention Time (1.0 for Aspirin)	0.7	0.64	0.68	0.67	0.71	0.68
Aspirin Peak Height	N/A	37.6	27.2	26.5	36.8	30.6
Resolution	≥2.0	10.04	8.28	9.38	6.68	8.96
Aspirin Peak Tailing Factor	≤2.0	0.739	0.829	0.873	0.778	0.837

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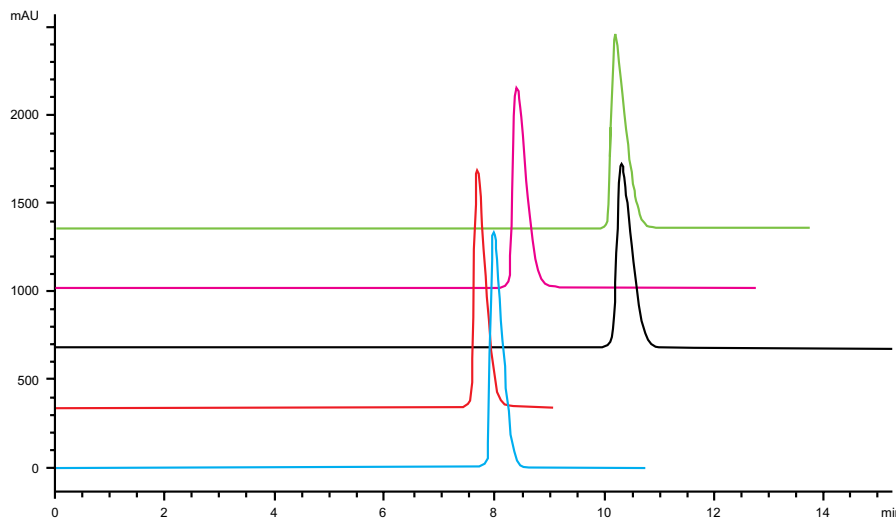
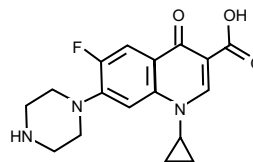
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Ciprofloxacin (U.S.P)

On GraceSmart™ HPLC Column



- GraceSmart™ C18 Part # 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18

Test condition (as USP assay)

Test sample: 0.5mg in eluent

Column: 4.6 x 250mm C18

Flow: 1.5ml/min

Eluent: Isocratic, 0.025 M phosphoric acid (adjusted with triethylamine to a pH of 3.0 ± 0.1) : acetonitrile 87:13

Detection: Absorbance, 278nm

Column temp. : 30°C

Injection Volume: 10µl

	USP Spec	GraceSmart™ C18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18
Retention Time (min)	N/A	10.196	8.412	10.316	7.683	7.977
Peak height	N/A	1099.3	1137.0	1047.9	1358.2	1335.9
Theoretical plates	≥2500	7268	5307	6953	6857	6496
Tailing Factor	≤4.0	2.207	2.07	1.806	2.329	2.359

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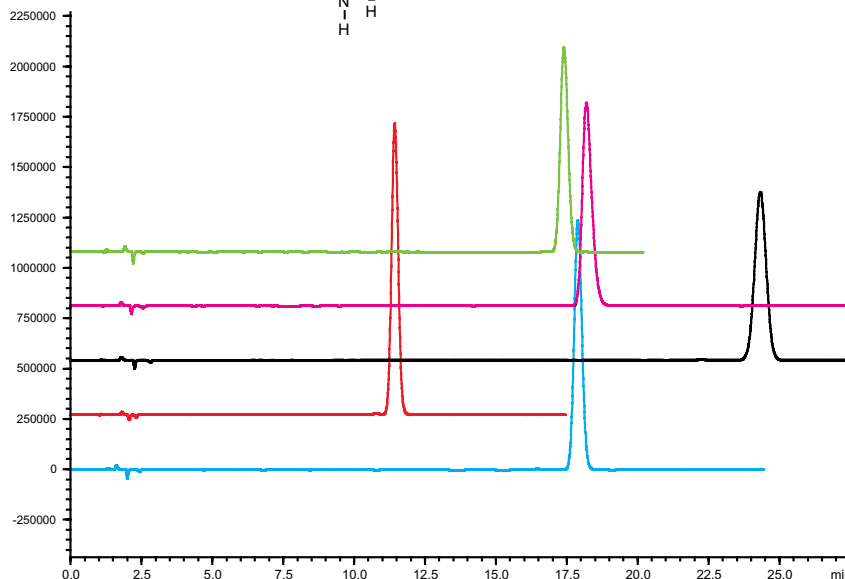
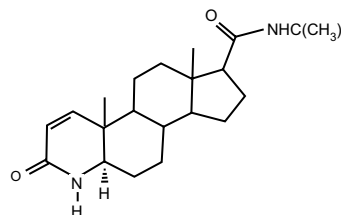
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 Email: discoverysciences.AU@grace.com

Finasteride (U.S.P.)

On GraceSmart™ HPLC Column



— GraceSmart™ C18 Part # 5138810
 — Competitor 1 C18
 — Competitor 2 C18
 — Competitor 3 C18
 — Competitor 4 C18

Test condition
 (as USP Chromatographic purity)

Test sample: 1.0 mg/ml Finasteride in mixture of water and ACN (1:1)

Column: 4.6 x 250mm, 5µm C18

Flow: 1.5ml/min

Eluent: Isocratic, water : THF : ACN 8:1:1

Detection: Absorbance, 210nm

Column temp. : 60°C

Injection Volume: 15µl

	USP Spec	GraceSmart™ C18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18
Ret. Time (min)	N/A	17.395	18.187	24.324	11.428	17.887
Theoretical plates	≥10000	17383	13391	15891	10715	18778
Tailing Factor	≤1.3	1.105	1.292	1.020	1.069	1.082

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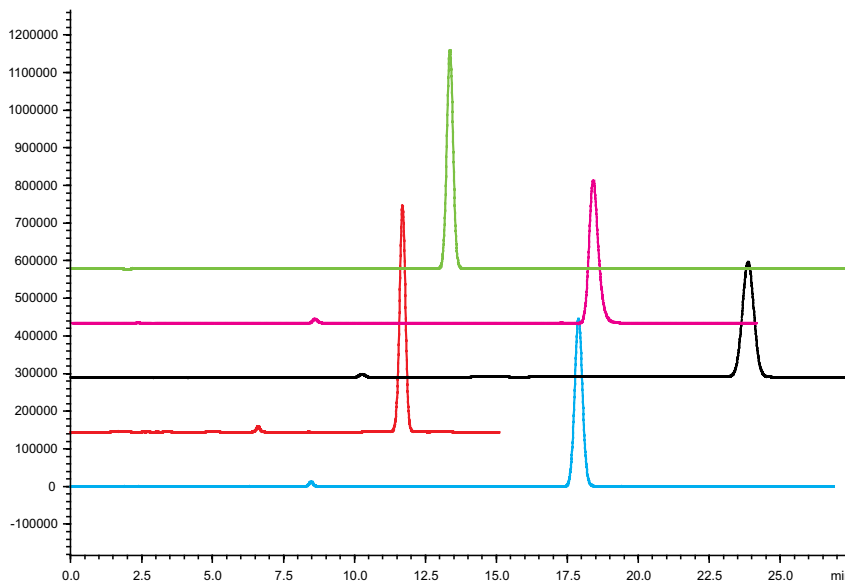
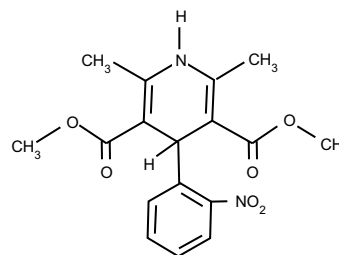
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Nifedipine (U.S.P.)

On GraceSmart™ HPLC Column



— GraceSmart™ C18 Part # 5138810
— Competitor 1 C18
— Competitor 2 C18
— Competitor 3 C18
— Competitor 4 C18

Test condition (as USP assay)

Test sample: 0.1 mg/ml Nifedipine in mobile phase

Column: 4.6 x 250mm, 5µm C18

Flow: 1.0ml/min

Eluent: Isocratic, water : ACN : MeOH 50:25:25

Detection: Absorbance, 235nm

Column temp. : 30°C

Injection Volume: 25µl

	USP Spec	GraceSmart™ C18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18
Ret. Time(min)	N/A	13.359	18.410	23.864	11.689	17.891
Theoretical plates	≥4000	15372	14554	15129	13860	18300
Tailing Factor	≤1.5	1.033	1.233	1.013	1.001	1.042

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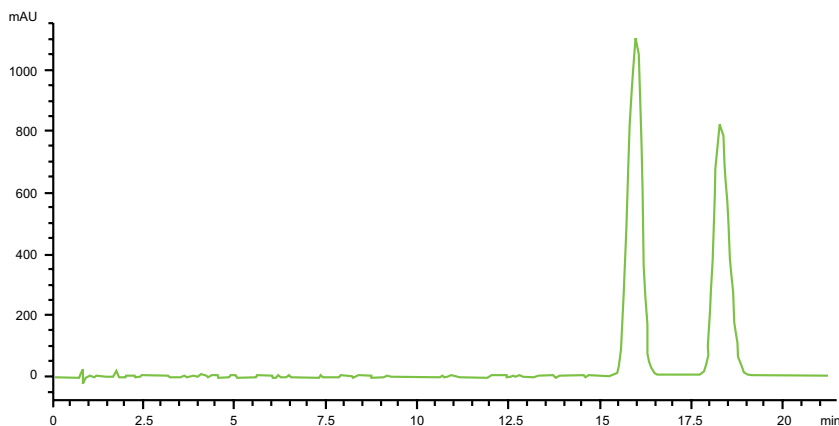
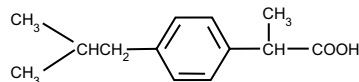
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Ibuprofen (U.S.P.)

On GraceSmart™ HPLC Column



Test condition
(as USP Chromatographic purity)

Test solution: 5mg/ml Ibuprofen in acetonitrile

Resolution solution: 5mg/ml Ibuprofen, 5mg/ml valerophenone in acetonitrile

Column: GraceSmart™ C18, 4.6 x 150mm (Part #: 5138812)

Flow: 2ml/min

Eluent: H₂O (adjusted with phosphoric acid to a pH of 2.5) : acetonitrile 6.5:3.5

Detection: Absorbance, 214nm

Injection Volume: 5µl

Sample	Retention Time (min)	Area	Resolution
1.) Valerophenone	16.056	27125.6	N/A
2.) Ibuprofen	18.386	22855.6	3.38 (USP Spec ≥2.0)

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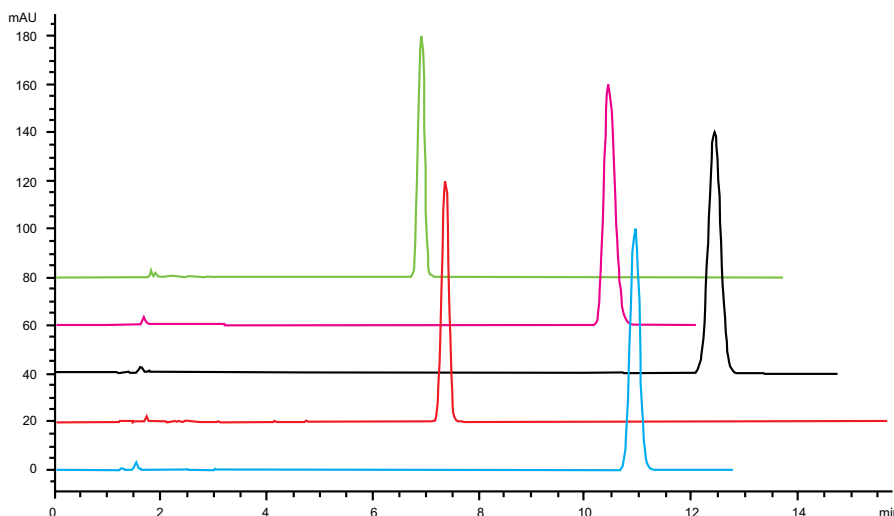
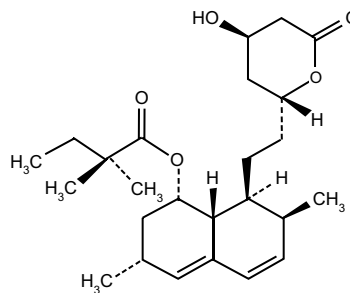
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Simvastatin Tablets (U.S.P)

On GraceSmart™ HPLC Column



- GraceSmart™ Part # 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18

Test condition (as USP assay)

Test sample: 0.1mg/ml Simvastatin in diluting solution

Column: 4.6 x 250mm C18

Flow: 1.5ml/min

Eluent: Isocratic, 0.39%(w/v) monobasic sodium phosphate (50% sodium hydroxide or 85% phosphoric to a pH4.5): acetonitrile 35:65

Detection: Absorbance, 238nm

Column temp. : 45°C

Injection Volume: 10µl

	USP Spec	GraceSmart™ C18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18
Retention Time (min)	N/A	6.910	10.442	12.429	7.366	10.933
Peak height	N/A	261.3	147.8	128.2	232.3	173.3
Theoretical plates	≥4500	17970	13553	13698	15896	19469
Tailing Factor	≤2.0	1.026	1.224	1.037	1.010	1.051
k'	≥3.0	3.11	4.43	7.35	3.48	6.86

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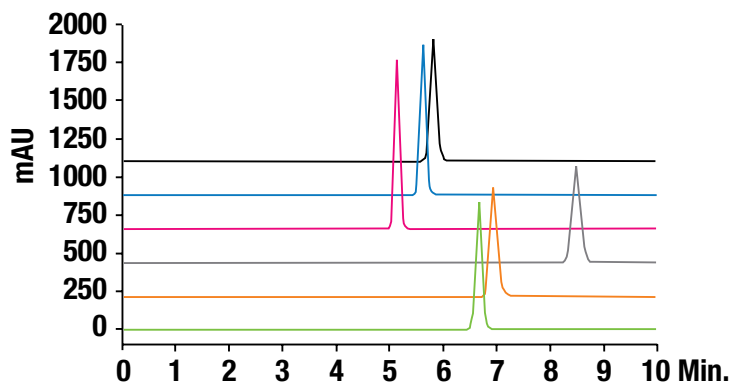
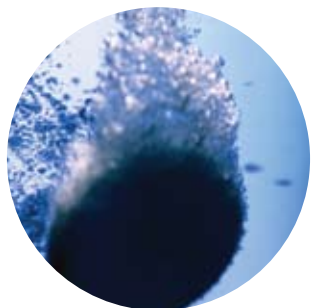
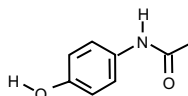
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Paracetamol Effervescent Tablets

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopeia assay)

Test sample: 0.1mg/ml Paracetamol in mobile phase

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: Isocratic, Phosphate buffer (dissolve 15.04g Sodium Dihydrogen Phosphate, 0.0627g Disodium Hydrogen Phosphate in 1000ml Water, and adjust with Phosphoric Acid to a pH of 4.5): Methanol 80:20

Detection: Absorbance, 254nm

Column temp. : 30°C

Injection Volume: 10µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	6.679	6.920	8.486	5.124	5.612	5.809
Theoretical plates	≥5000	14938	11719	13068	14457	14003	10124
Tailing Factor@5%	N/A	0.958	1.306	1.080	1.070	1.094	1.138

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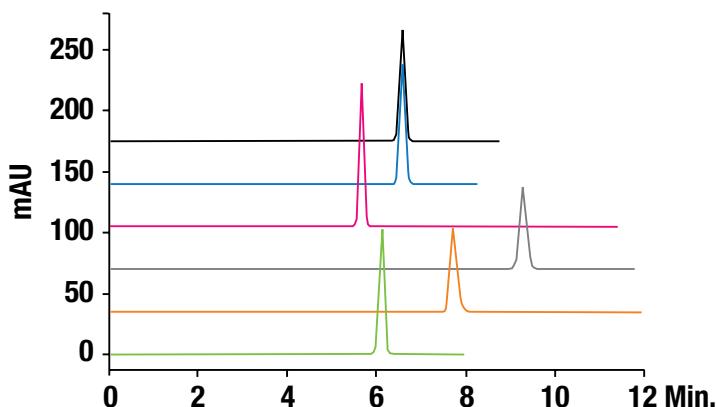
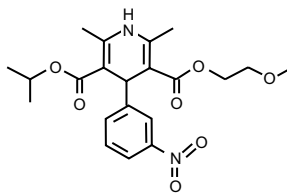
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Nimodipine Tablets

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopeia assay)

Test sample: 20ug/ml Nimodipine in mobile phase

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: Isocratic, Methanol:Acetonitrile: Water 35:38:27

Detection: Absorbance, 237nm

Column temp. : 30°C

Injection Volume: 10µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	6.114	7.709	9.281	5.670	6.582	6.570
Theoretical plates	≥8000	15266	11411	14279	15983	15468	13588
Tailing Factor@5%	N/A	0.915	1.289	1.027	1.033	1.056	1.049

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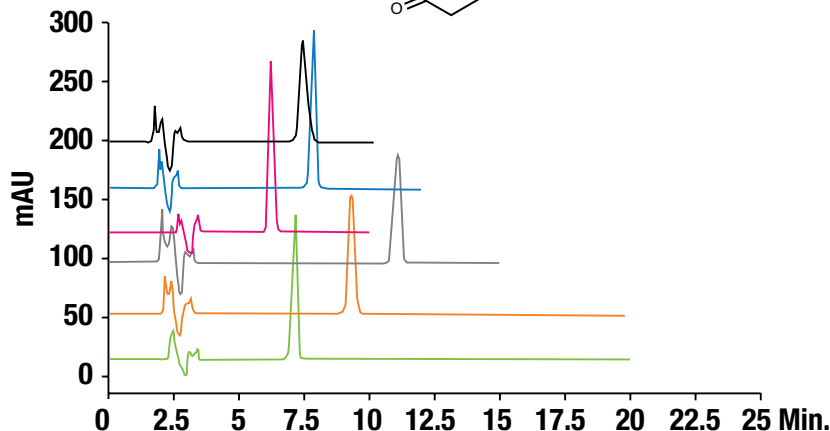
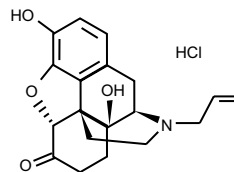
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Naloxone Hydrochloride Injection

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopiea assay)

Test sample: 0.01mg/ml Naloxone Hydrochloride in dilute solvent (150mg Ethylene Diamine, Tetraacetic Acid Disodium and 0.9ml Hydrochloric Acid in 2000ml volumetric flask)

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: Sodium 1-octanesulfonate solvent (1.36g Sodium 1-octanesulfonate, 1.0g Sodium Chloride in 580ml H₂O); Methanol:Phosphoric Acid 580:420:1

Detection: Absorbance, 229nm

Column temp. : 30°C

Injection Volume: 100µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	7.173	9.291	11.082	6.229	7.846	7.450
Theoretical plates	N/A	5478	7094	6532	6319	9049	3187
Tailing Factor@5%	N/A	0.758	1.081	0.823	1.068	0.855	1.146

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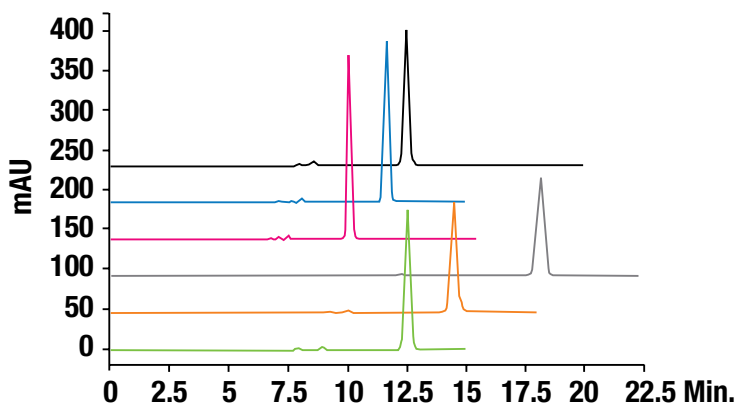
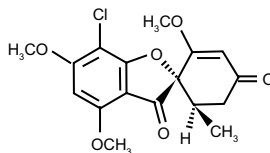
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Griseofulvin

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopeia assay)

Test sample: 0.1mg/ml Griseofulvin in mobile phase

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: 0.05mol/L Potassium Dihydrogen Phosphate:Acetonitrile:Methanol 57:38:5

Detection: Absorbance, 254nm

Column temp. : 30°C

Injection Volume: 10µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	12.553	14.451	18.140	10.084	11.620	12.476
Theoretical plates	≥800	17515	14855	16987	18802	19361	15564
Tailing Factor@5%	N/A	0.924	1.319	1.040	1.046	1.081	1.065

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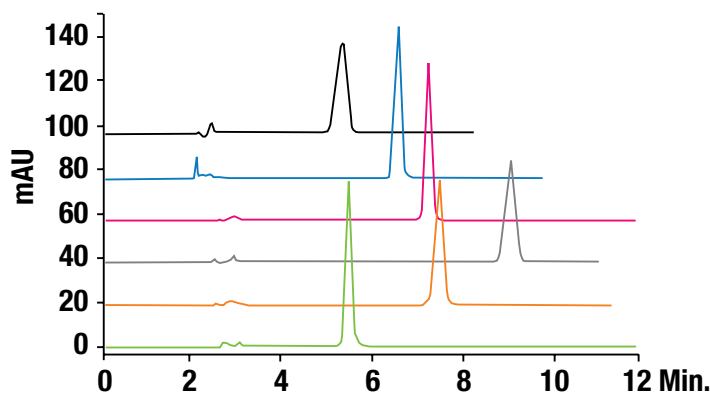
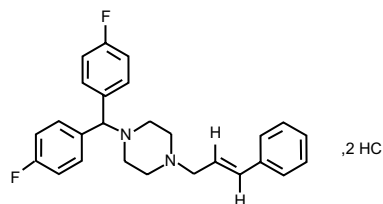
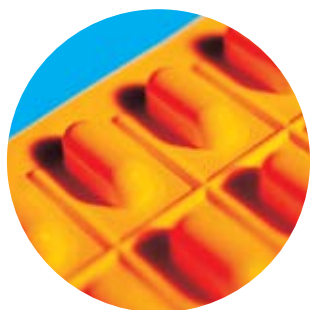
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Flunarizine Hydrochloride Capsules

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopeia assay)

Test sample: 12ug/ml Flunarizine Hydrochloride in 0.24% Hydrochloric Acid solution (first dissolve in 1ml Ethanol, then dilute with 0.24% Hydrochloric Acid solution to 100ml)

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: Isocratic, Methanol:Phosphate buffer (Dissolve 1.36g Potassium Dihydrogen Phosphate in 1000ml Water, add 4ml Triethylamine, and adjust with Phosphoric Acid to a pH of 3.5) 75:25

Detection: Absorbance, 253nm

Column temp. : 35°C

Injection Volume: 20µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	5.509	7.485	9.043	7.242	6.581	5.369
Theoretical plates	≥3000	10038	10168	8895	13116	10159	2283
Tailing Factor@5%	N/A	0.987	0.904	0.967	1.048	0.961	0.887

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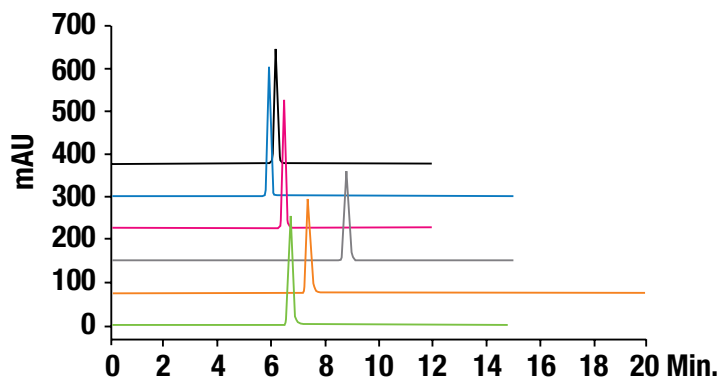
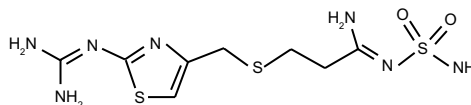
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Famotidine Tablets

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

**Test condition
(as Chinese Pharmacopeia assay)**

Test sample: 0.1mg/ml Famotidine in mobile phase

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: Sodium 1-Heptanesulfate solvent (2.0g Sodium 1-Heptanesulfate in 900ml H₂O, adjust to pH 3.9 with Acetic Acid): ACN:Methanol 25:6:1

Detection: Absorbance, 254nm

Column temp. : 30°C

Injection Volume: 20µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	6.711	7.348	8.794	6.460	5.906	6.158
Theoretical plates	≥1400	12172	10987	12595	14518	12137	10604
Tailing Factor@5%	N/A	1.149	1.417	1.094	1.172	1.174	1.090

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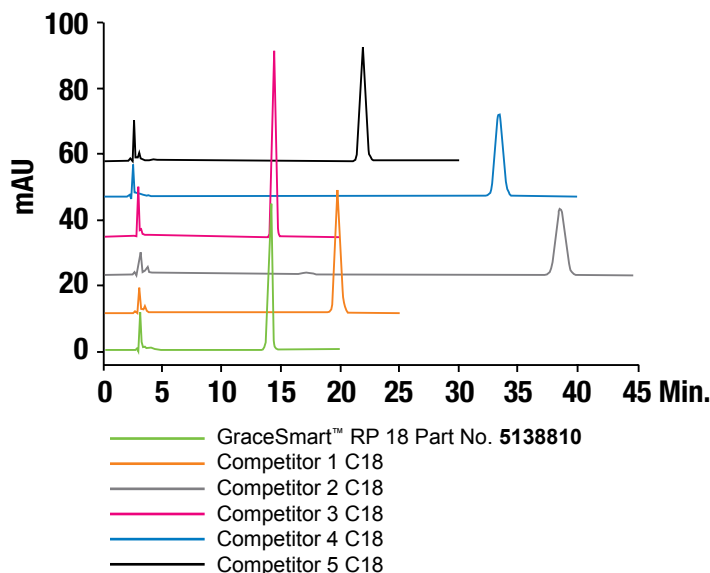
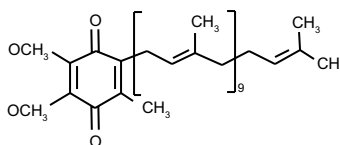
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Coenzyme Q10

On GraceSmart™ HPLC Column



Test condition
(as Chinese Pharmacopeia assay)

Test sample: 0.2mg/ml Coenzyme Q10 in Anhydrous Ethanol

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: Methanol:Ethanol 1:1

Detection: Absorbance, 275nm

Column temp. : 35°C

Injection Volume: 20µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	14.083	19.720	38.549	14.399	33.369	21.909
Theoretical plates	≥3000	11212	9721	10212	11541	11956	9679
Tailing Factor@5%	N/A	0.917	1.255	1.014	1.022	1.029	1.026

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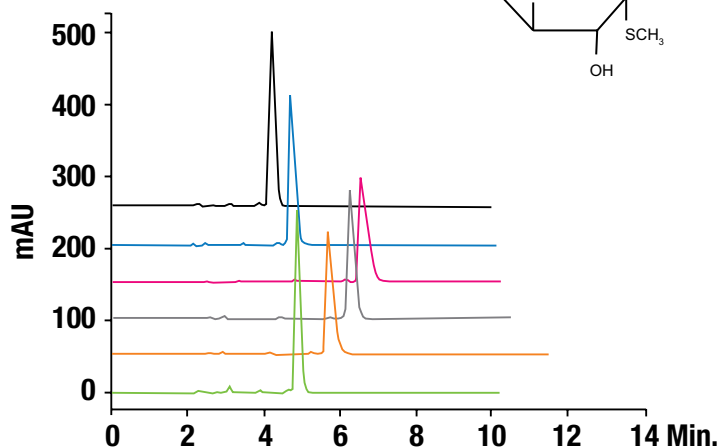
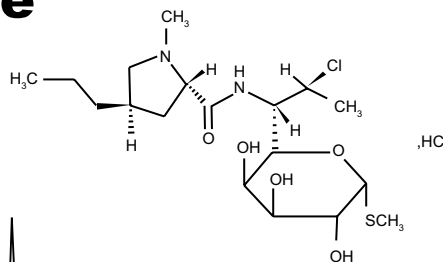
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Clindamycin Hydrochloride

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopeia assay)

Test sample: 2mg/ml Clindamycin in mobile phase

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: Methanol:Ammonium Dihydrogen Phosphate solution (dissolve 2.88g Ammonium Dihydrogen Phosphate in 1000ml H₂O and adjust with Phosphoric Acid to a pH of 3.0) 300:210

Detection: Absorbance, 214nm

Column temp. : 30°C

Injection Volume: 10µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	4.866	5.679	6.248	6.542	4.695	4.210
Theoretical plates	≥1300	6778	3918	5205	3870	3891	4736
Tailing Factor@5%	N/A	1.500	1.924	1.674	2.780	2.037	1.335

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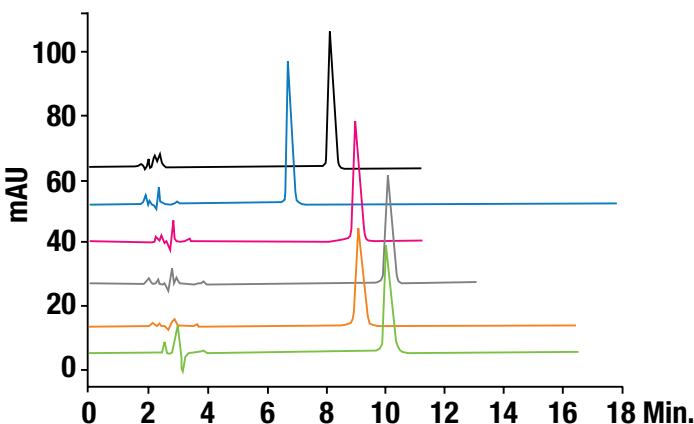
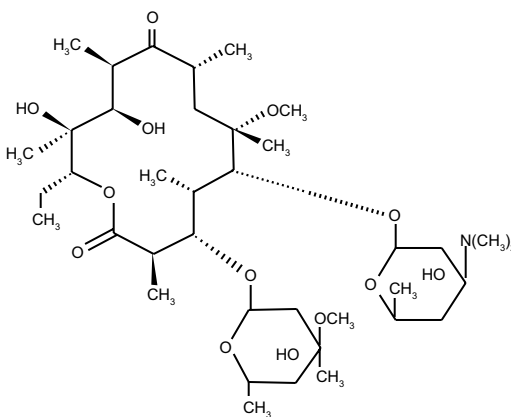
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Clarithromycin

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopoeia assay)

Test sample: 0.35mg/ml Clarithromycin in mobile phase

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: Isocratic, Phosphate buffer (Dissolve 9.11g of Potassium Dihydrogen Phosphate in 1000ml Water, add 2ml Triethylamine, and adjust with Phosphoric Acid to a pH of 5.5); Acetonitrile 600:400

Detection: Absorbance, 210nm

Column temp. : 45°C

Injection Volume: 20µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	10.039	9.070	10.069	8.978	6.736	8.134
Theoretical plates	≥3000	11202	7156	10570	10018	7795	9974
Tailing Factor@5%	≤2.0	1.617	1.712	1.447	1.889	1.792	1.446

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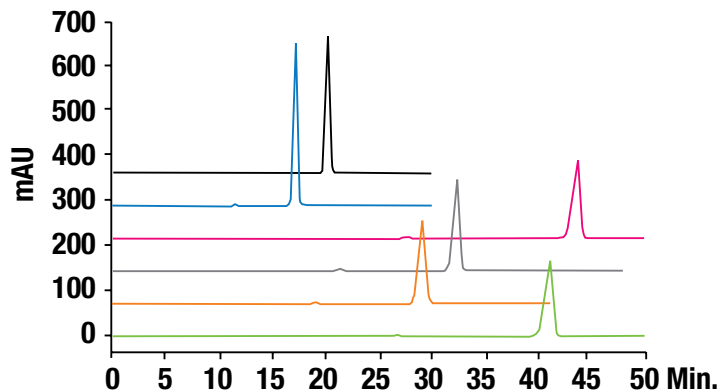
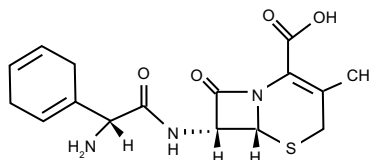
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Cefradine

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopeia assay)

Test sample: 0.7mg/ml Cefradine in mobile phase

Column: 4.6 x 250mm C18

Flow: 0.9ml/min

Eluent: Isocratic, Water:Methanol:
3.86% Sodium Acetate: 4% Acetic Acid
1564:400:30:6

Detection: Absorbance, 254nm

Column temp. : 30°C

Injection Volume: 10µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	40.998	28.950	32.262	43.609	17.187	20.228
Theoretical plates	≥2500	13520	8999	13235	15660	13037	11881
Tailing Factor@5%	N/A	0.758	1.051	0.879	0.768	0.853	0.896

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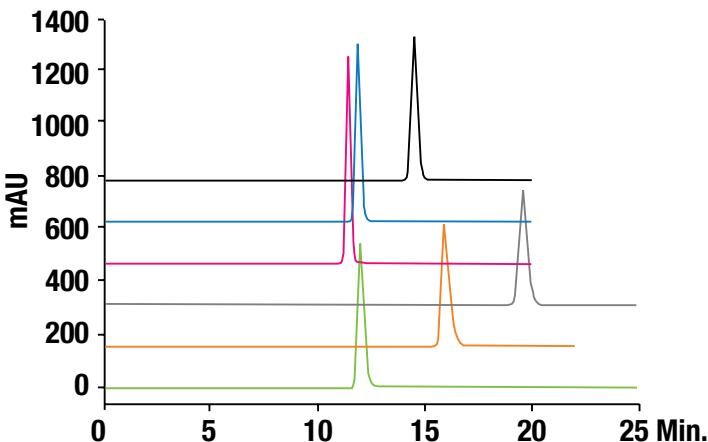
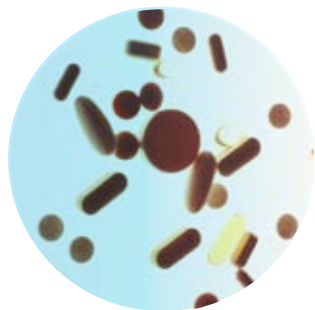
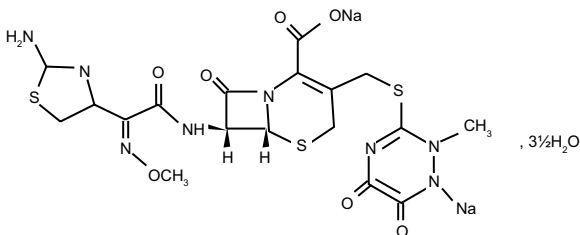
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Ceftriaxone Sodium

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopeia assay)

Test sample: 0.22mg/ml Ceftriaxone in mobile phase

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: 0.02mol/L n-Octylamine: Acetonitrile 73:27

Detection: Absorbance, 254nm

Column temp. : 30°C

Injection Volume: 20µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	11.917	15.882	19.526	11.404	11.849	14.484
Theoretical plates	N/A	10015	9752	12124	13556	10529	10363
Tailing Factor@5%	N/A	1.619	1.629	1.231	1.205	1.335	1.163

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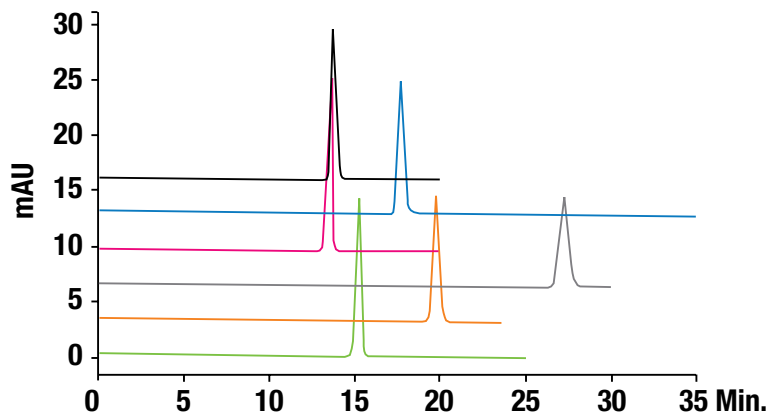
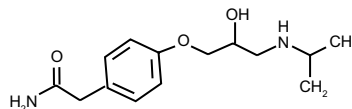
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Atenolol

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopeia assay)

Test sample: 0.064 mg/ml Atenolol in mobile phase

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: 700ml Phosphate buffer (6.8g Potassium Dihydrogen Phosphate in 1000ml H₂O, adjust pH3.0 with Phosphoric acid), add Methanol 300ml and Sodium 1-octanesulfonate 1.30g

Detection: Absorbance, 275nm

Column temp. : 30°C

Injection Volume: 20µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	15.220	19.694	27.203	13.507	17.643	13.684
Theoretical plates	N/A	12321	14254	12500	11532	12510	9386
Tailing Factor@5%	N/A	0.888	1.082	1.016	0.813	1.134	1.362

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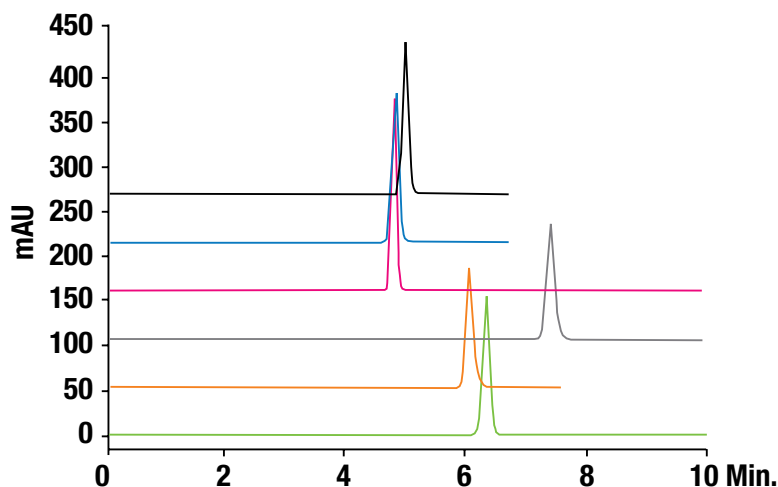
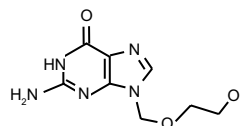
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Aciclovir

On GraceSmart™ HPLC Column



- GraceSmart™ RP 18 Part No. 5138810
- Competitor 1 C18
- Competitor 2 C18
- Competitor 3 C18
- Competitor 4 C18
- Competitor 5 C18

Test condition
(as Chinese Pharmacopeia assay)

Test sample: 20ug/ml Aciclovir

Column: 4.6 x 250mm C18

Flow: 1.0ml/min

Eluent: Isocratic, Methanol:Water 10:90

Detection: Absorbance, 254nm

Column temp. : 30°C

Injection Volume: 20µl

	CHP Spec	GraceSmart™ RP 18	Comp 1 C18	Comp 2 C18	Comp 3 C18	Comp 4 C18	Comp 5 C18
Retention Time (min)	N/A	6.338	6.036	7.404	4.800	4.829	4.993
Theoretical plates	N/A	15115	9735	12858	15411	9264	10396
Tailing Factor@5%	N/A	0.939	1.327	1.050	1.070	1.045	1.060

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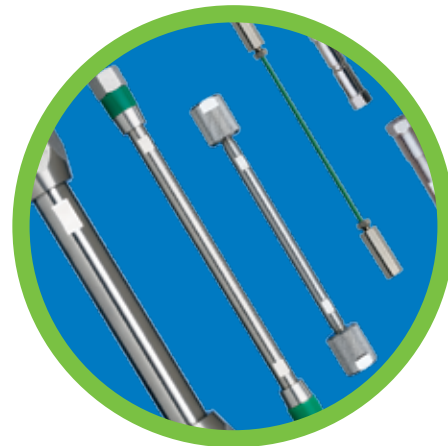
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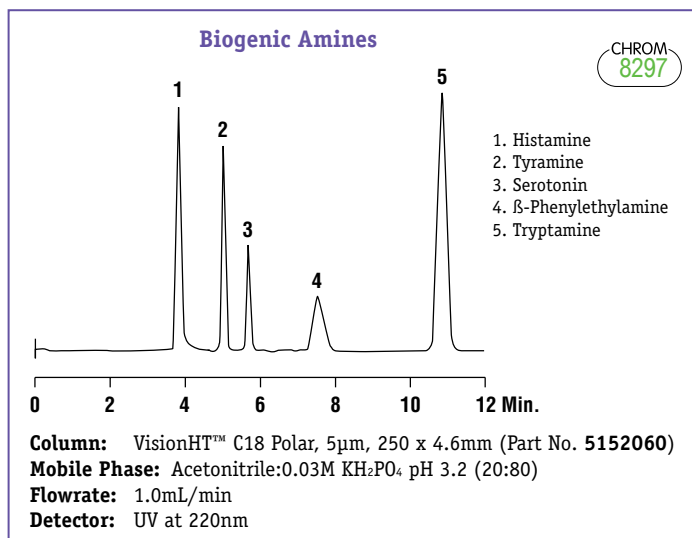
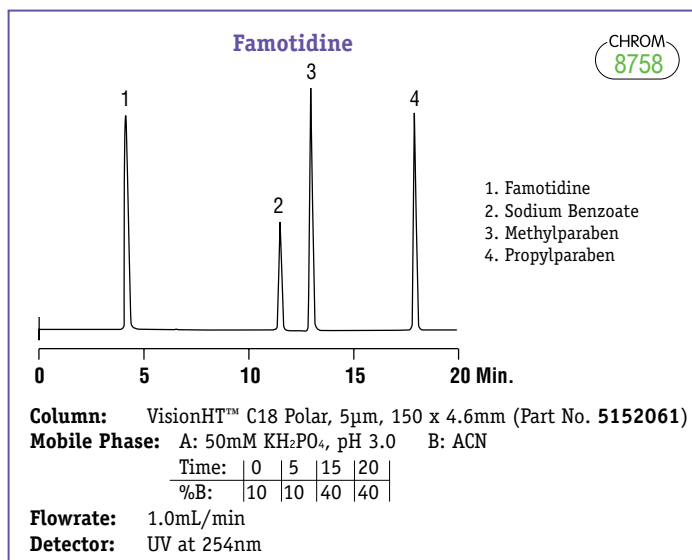
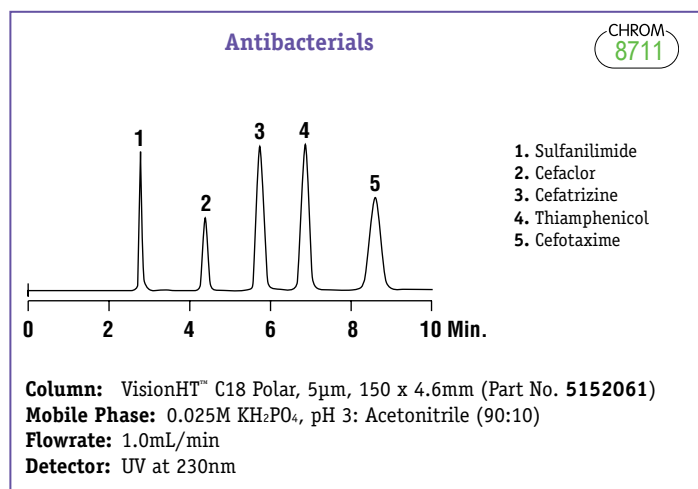
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For example, degradants of benzodiazepines are well resolved on VisionHT™ C18 Basic. During method development, VisionHT™ C18 Basic and VisionHT™ C18 Polar columns can be used to generate alternative selectivities to most base-deactivated columns.



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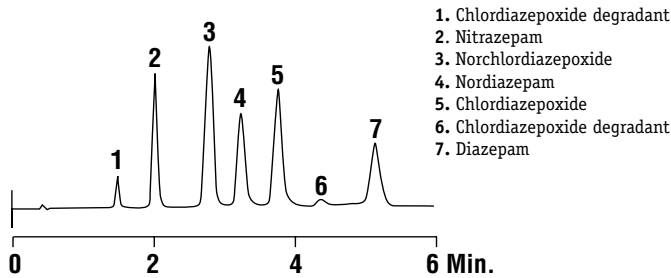
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Benzodiazepines and Metabolites

CHROM
8691

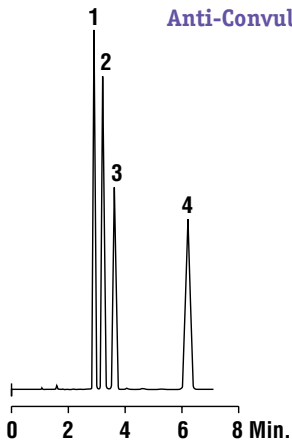


1. Chlordiazepoxide degradant
2. Nitrazepam
3. Norchlordiazepoxide
4. Nordiazepam
5. Chlordiazepoxide
6. Chlordiazepoxide degradant
7. Diazepam

Column: VisionHT™ C18 Polar, 3µm, 53 x 7mm Rocket™ (Part No.5152074)
Mobile Phase: 0.05M Ammonium Acetate, pH5.5: Acetonitrile (65:35)
Flowrate: 3.0mL/min
Detector: UV at 254nm

Anti-Convulsants

CHROM
8163

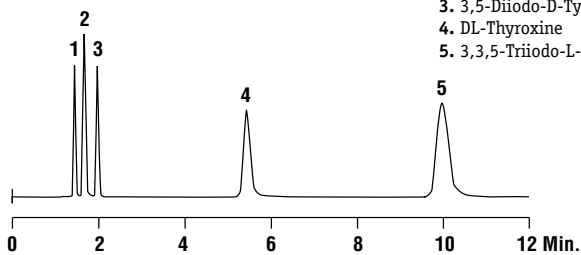


1. Ethotoin
2. Methsuximide
3. Methetoin
4. Carbamazepine

Column: VisionHT™ C18 Polar, 5µm, 150 x 4.6mm (Part No. 5152061)
Mobile Phase: Methanol:Acetonitrile:0.005M NaH₂PO₄, pH 5.5, (30:20:50)
Flowrate: 1.0mL/min
Detector: UV at 220nm

Thyroid Chemicals

CHROM
8282

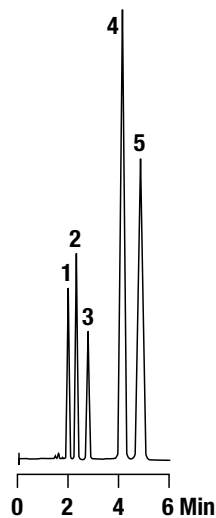


1. DL-Tyrosine
2. 3-Iodo-Tyrosine
3. 3,5-Diiodo-D-Tyrosine
4. DL-Thyroxine
5. 3,3,5-Triiodo-L-Thyronine

Column: VisionHT™ C18 Polar, 5µm, 150 x 4.6mm (Part No. 5152061)
Mobile Phase: 0.05M KH₂PO₄, pH 3.2: Acetonitrile (65:35)
Flowrate: 1.0mL/min
Detector: UV at 254nm

Sedatives/Hypnotics

CHROM
8160

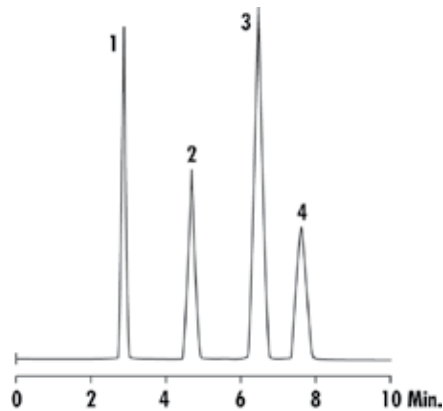


1. Barbitol
2. Phenobarbital
3. Butalbital
4. Oxazepam
5. Triazolam

Column: VisionHT™ C18 Basic, 5µm, 150 x 4.6mm (Part No. 5151993)
Mobile Phase: Methanol:Acetonitrile:0.05M NH₄H₂PO₄, pH 4.5,(50:10:40)
Flowrate: 1.0mL/min
Detector: UV at 230nm

Central and Respiratory Stimulants

CHROM
8169



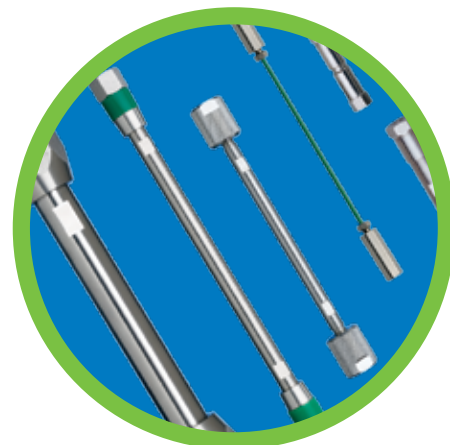
1. Theophylline
2. Caffeine
3. Ethamivan
4. 8-Chlorotheophylline

Column: VisionHT™ C18 Polar, 5µm, 150 x 4.6mm (Part No. 5152061)
Mobile Phase: Methanol:Acetonitrile:1% Acetic Acid, pH=3.2, (30:10:60)
Flowrate: 1.0mL/min
Detector: UV at 254nm

Basic Pharmaceuticals A Media Selectivity Comparison

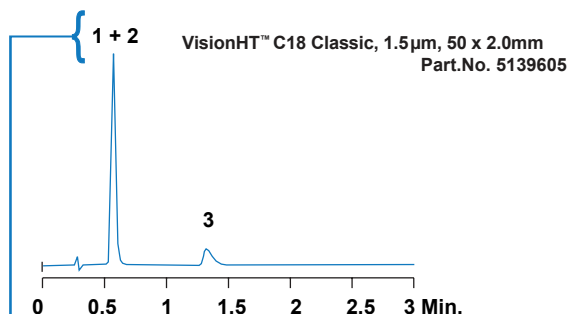
with VisionHT™ Media Platform Columns

- Speed and resolution on any system - LC, UHPLC, or Semi-Prep
- 1.5-10µm orthogonal chemistries simplify separation strategies
- Single particle technology improves laboratory and organizational efficiency.



VisionHT™ Media Platform Specifications

Particle Size:	1.5, 3.0, 5.0, 10µm
Base Silica:	High Purity Type B
Pore Size:	100Å for C18 Classic & C18 Polar 120Å for C18 Basic & C18 High Load
Surface Area:	200m ² C18 Classic & C18 Polar 220m ² C18 Basic & C18 High Load
pH Stability:	1-10
Pressure Rating:	16,000psig (UHPLC formats)

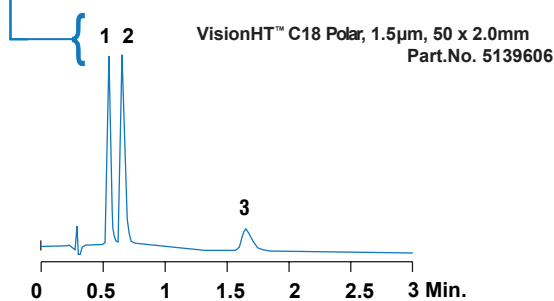


CHROM
10737
10738

Mobile Phase: (30:70) 25mM potassium phosphate, pH7:methanol
Flow Rate: 0.5mL/min
Detector: UV at 230nm

VisionHT™ C18 Polar retains basic pharmaceuticals longer. VisionHT™ C18 Classic offers more classic reversed-phase selectivity.

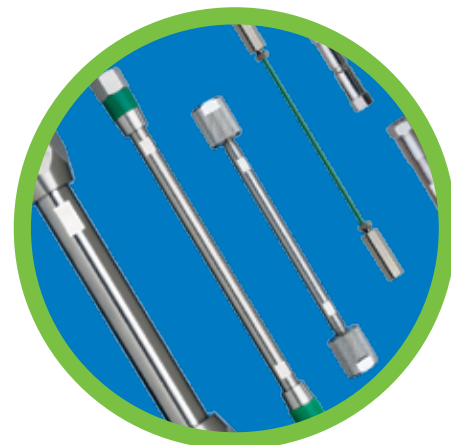
1. Procaine
2. Lidocaine
3. Tetracaine



Basic Pharmaceuticals - Method Transfer to High Throughput formats

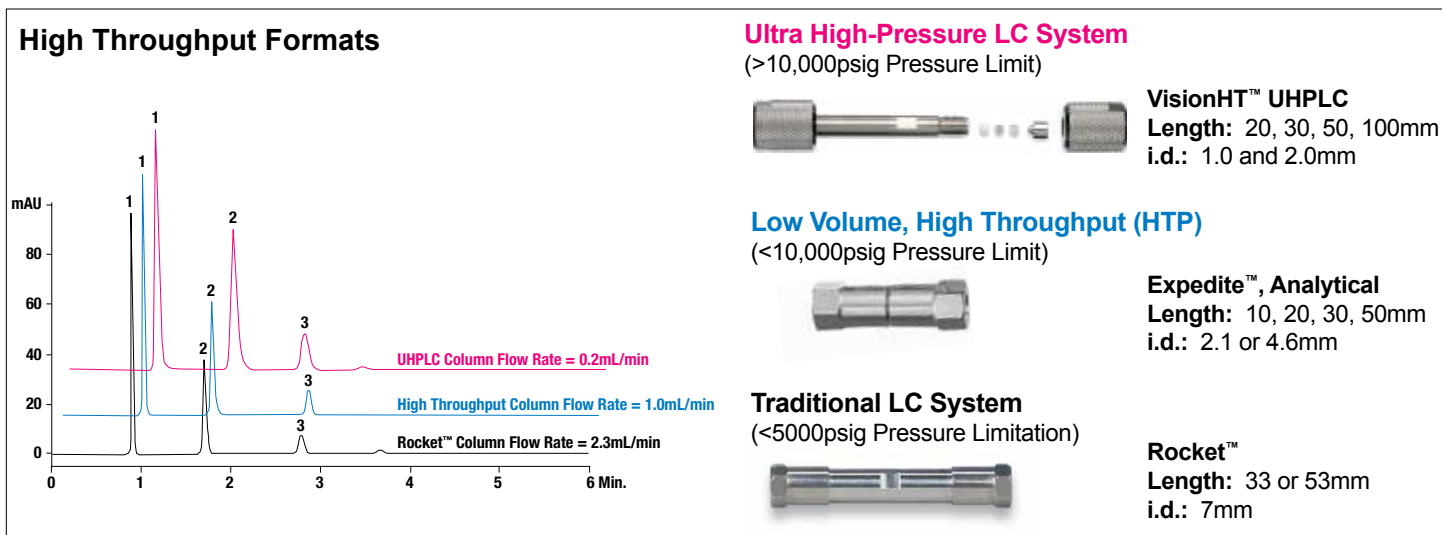
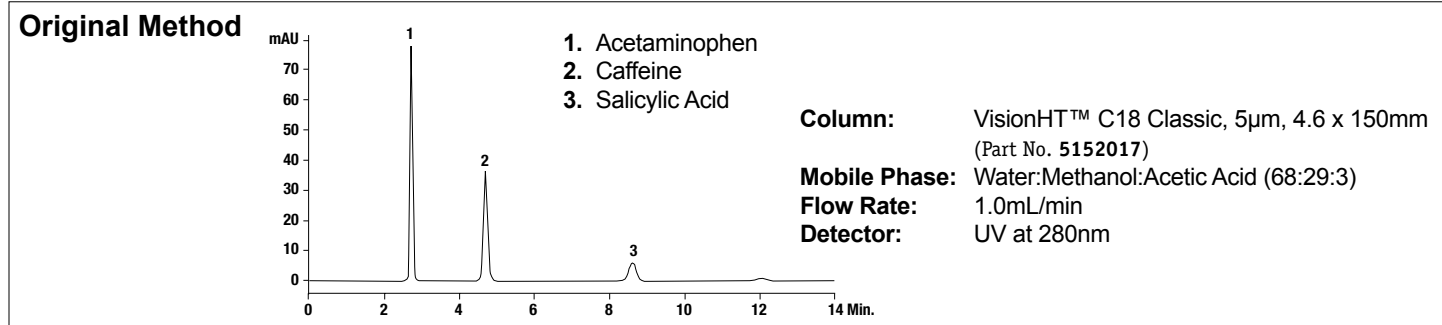
with VisionHT™ Media Platform Columns

- Speed and resolution on any system - LC, UHPLC, or Semi-Prep
- 1.5-10µm orthogonal chemistries simplify separation strategies
- Single particle technology improves laboratory and organizational efficiency.



VisionHT™ Media Platform Specifications

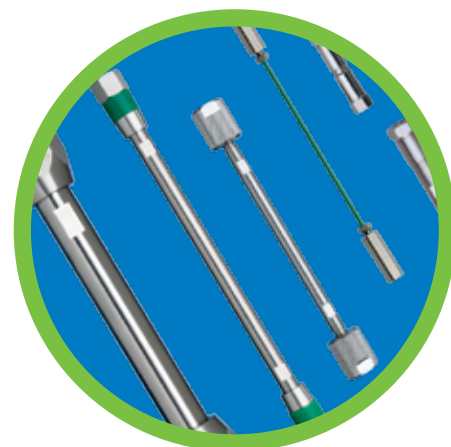
Particle Size:	1.5, 3.0, 5.0, 10µm
Base Silica:	High Purity Type B
Pore Size:	100Å for C18 Classic & C18 Polar 120Å for C18 Basic & C18 High Load
Surface Area:	200m ² C18 Classic & C18 Polar 220m ² C18 Basic & C18 High Load
pH Stability:	1-10
Pressure Rating:	16,000psig (UHPLC formats)



Time Savings for Drug Applications

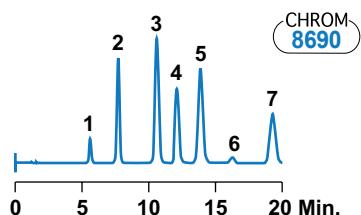
with VisionHT™ Media Platform Columns

- Speed and resolution on any system - LC, UHPLC, or Semi-Prep
- 1.5-10µm orthogonal chemistries simplify separation strategies
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VisionHT™ Media Platform Specifications

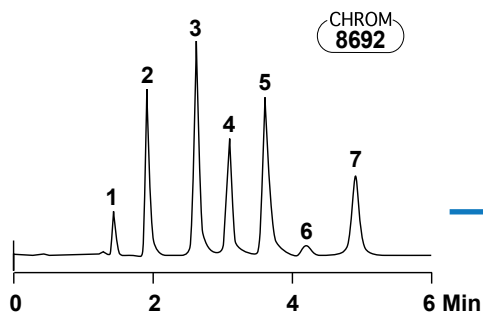
Particle Size:	1.5, 3.0, 5.0, 10µm
Base Silica:	High Purity Type B
Pore Size:	100Å for C18 Classic & C18 Polar 120Å for C18 Basic & C18 High Load
Surface Area:	200m ² C18 Classic & C18 Polar 220m ² C18 Basic & C18 High Load
pH Stability:	1-10
Pressure Rating:	16,000psig (UHPLC formats)



Column: VisionHT™ C18 Classic, 100Å, 5µm, 150 x 4.6mm
(Part No. 5152017)
Mobile Phase: 0.05M Ammonium Acetate, pH5.5:Acetonitrile (65:35)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

1. Chlordiazepoxide degradant
2. Nitrazepam
3. Norchlordiazepoxide
4. Nordiazepam
5. Chlordiazepoxide
6. Chlordiazepoxide degradant
7. Diazepam

**75%
Faster,
Equivalent
Peak
Count**

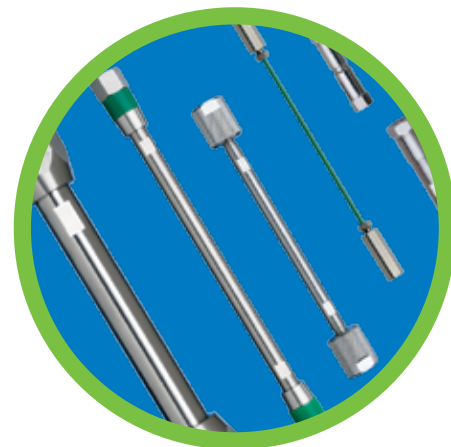


Column: VisionHT™ C18 Classic, 100Å, 1.5µm, 33 x 7.0mm, Rocket™
(Part No. 5152041)
Mobile Phase: 0.05M Ammonium Acetate, pH5.5:Acetonitrile (65:35)
Flow Rate: 2.0mL/min
Detector: UV at 254nm

Selectivity Optimized for High Speed Applications

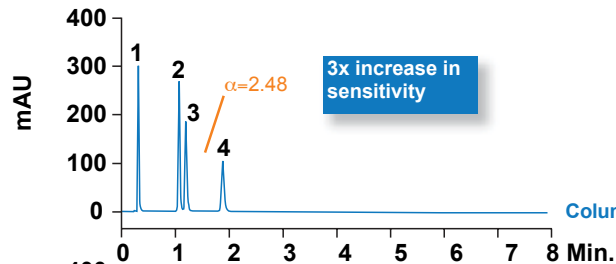
with VisionHT™ Media Platform Columns

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- 1.5-10µm orthogonal chemistries simplify separation strategies
- Single particle technology improves laboratory and organizational efficiency.



VisionHT™ Media Platform Specifications

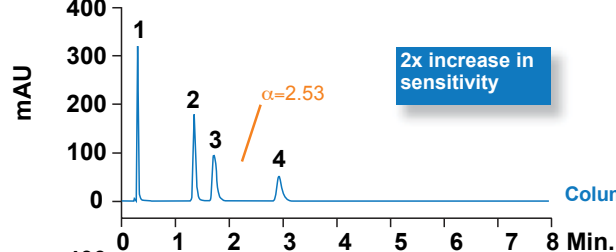
Particle Size:	1.5, 3.0, 5.0, 10µm
Base Silica:	High Purity Type B
Pore Size:	100Å for C18 Classic & C18 Polar 120Å for C18 Basic & C18 High Load
Surface Area:	200m² C18 Classic & C18 Polar 220m² C18 Basic & C18 High Load
pH Stability:	1-10
Pressure Rating:	16,000psig (UHPLC formats)



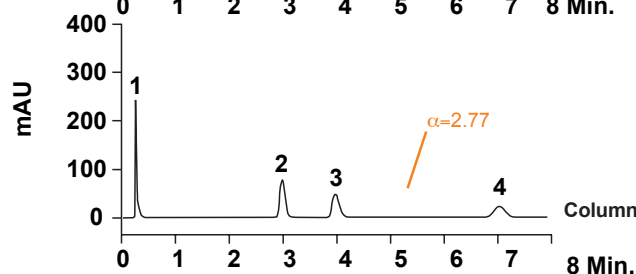
CHROM
10720
10719
10721

Column: 50 x 2.0mm VisionHT™ C18 Polar, 1.5µm
Part. No. 5139606

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



Column: 50 x 2.0mm VisionHT™ C18 Classic, 1.5µm
Part. No. 5139605



Column: 50 x 2.1mm Competitor A C18, 1.8µm

Mobile Phase: (40:60) 20mM potassium phosphate, pH 2.5 methanol
Flow Rate: 0.5mL/min
Detector: UV at 280nm
Temperature: Ambient

VisionHT™ media maintains resolution and increases overall sensitivity.