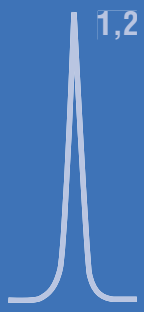
Platinum™ HPLC Columns

Alltech

Stand Out from the Crowd

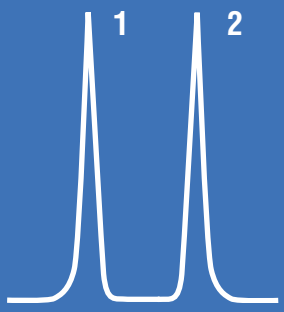
Typical RP Columns

Similar selectivity limiting your choices for challenging separations



Platinum Columns

Unique selectivity that succeeds when traditional reversed phase columns fail



The GRACE Davison Product Lines

Brochure #444A

Alltech DAVISIL GROM JONES CHROMATOGRAPHY MODCOL VYDAC

UNP

Platinum™ HPLC Columns — Controlled Silica Exposure

The Platinum Column Advantage

Controlled silica exposure is the difference that makes Platinum Columns unique. The approach taken by most column manufacturers in making reversed-phase columns is to thoroughly cover the silica with bonded phase to minimize any interaction between polar analytes and the packing medium's silica backbone. Platinum media takes a different approach. Instead of maximizing the coverage of bonded phase to hide the silica, the exposure of the silica is controlled to provide a dual mode separation medium with both polar and non-polar sites exposed to your samples. This extends polar selectivity well beyond what other reversed-phase columns offer and gives separations other columns cannot.

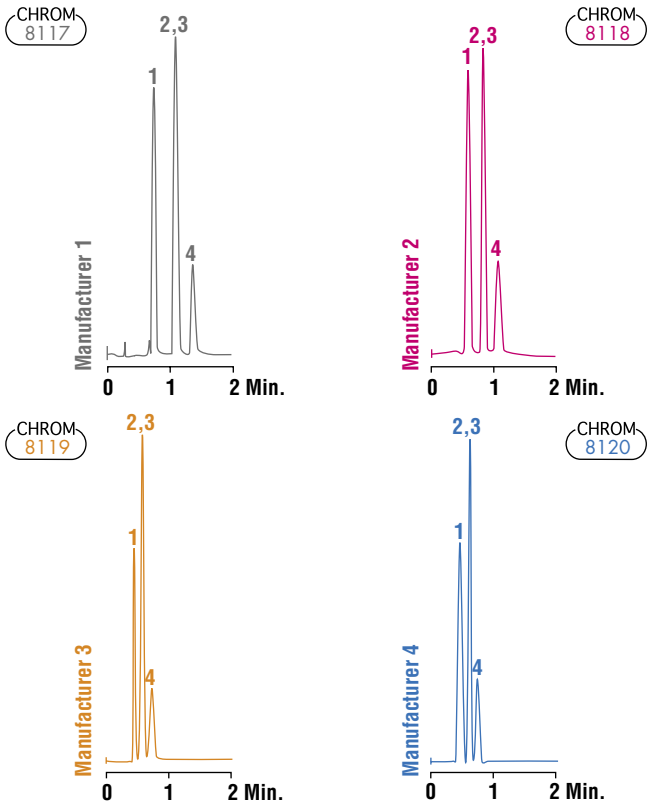
Standard Platinum Columns vs Platinum EPS Columns

Platinum Columns come in two varieties offering different levels of silica exposure. Standard Platinum has a moderate silica exposure and is best used with neutral and moderately polar compounds. Platinum EPS (Extended Polar Selectivity) has a high level of silica exposure and is best used with compounds containing more than two polar functional groups.

Most Reversed Phase Columns Have the Same Selectivity

Most reversed phase columns have the same selectivity. If one reversed phase column does not separate the sample, chances are other reversed phase columns will also fail!

Basic Pharmaceuticals On Competitive Reversed Phase Columns



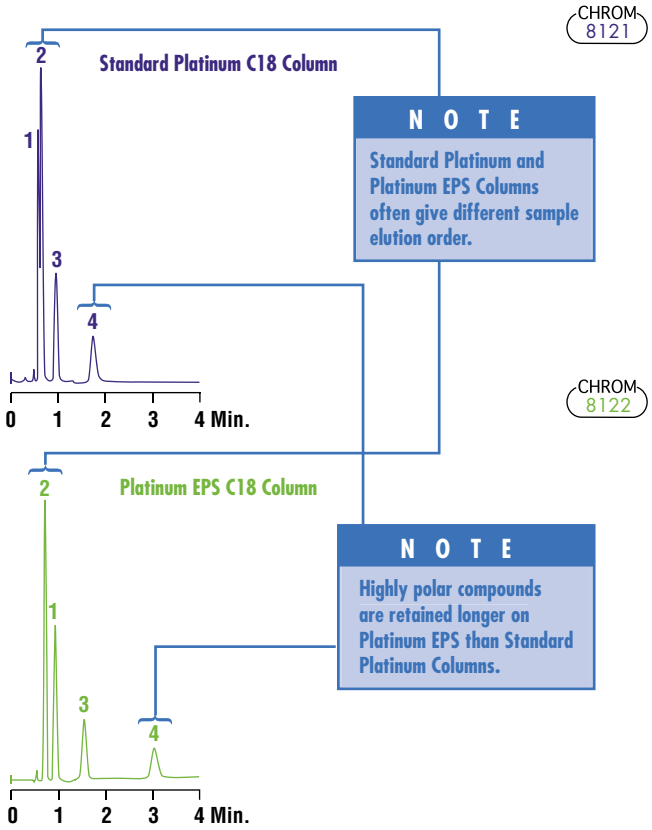
1. Procaine
2. Lidocaine
3. Tetracaine
4. Diphenhydramine

Column: C18, 5µm, 100 x 4.6mm
Mobile Phase: Methanol:0.025M K_2HPO_4, pH 7.0 (85:15)
Flow Rate: 2.0mL/min
Detector: UV at 230nm

The Platinum Column Difference

Platinum Columns produce results when other columns cannot. Platinum's controlled silica exposure extends the selectivity range well beyond that of other reversed phase columns.

Basic Pharmaceuticals



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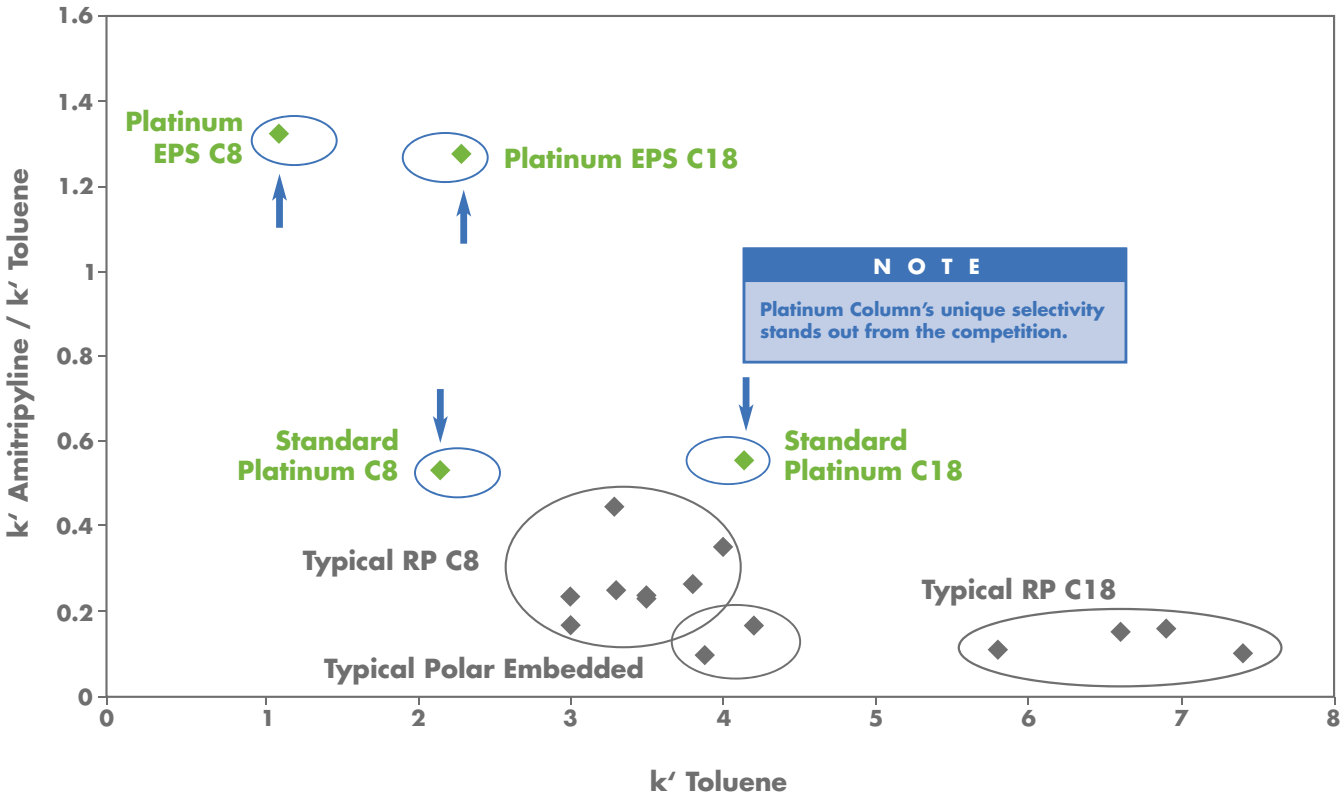
Contact your Alltech office or distributor for current or local prices.

Trying to solve difficult seperation problems using typical reversed phase columns often leads to the same problem. Choose Platinum™ Columns for completely different selectivity. See chart below.

Hydrophobic/Hydrophillic Balance at pH 3 of Various Reversed Phase HPLC Packings



Plotting k' values of different compounds (polar vs. nonpolar) demonstrate the unique selectivity of Platinum & Platinum EPS Columns, compared to conventional reversed phase columns.

Polar Selectivity Benefits

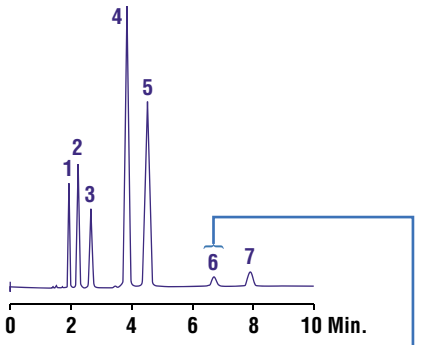
Complementary Selectivity

Standard Platinum™ and Platinum EPS Columns produce different retention times and selectivities for the same sample.

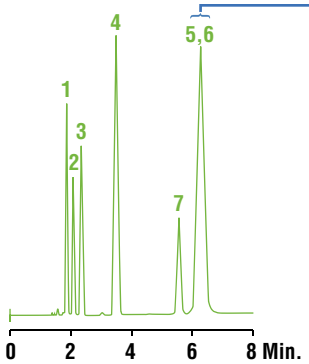
Sedatives/Hypnotics Mix

CHROM 8187

Standard Platinum C18 Column



Platinum EPS C18 Column



NOTE

Standard Platinum Columns resolves an impurity peak that coelutes with Triazolam on Platinum EPS Columns.

CHROM 8188

1. Barbital
2. Phenobarbital
3. Butalbital
4. Oxazepam
5. Triazolam
6. Unknown
7. p-Xylene

Columns: 5µm, 150 x 4.6mm
Mobile Phase: Methanol:Acetonitrile: 0.05M $NH_4H_2PO_4$ pH 4.5 (50:10:40)
Flow Rate: 1.0mL/min
Detector: UV at 230nm

Selectivity Values*

Compound	Standard Platinum C18	Compound	Platinum EPS C18
1. Barbital	17.65	**1.** Barbital	13.48
2. Phenobarbital	9.66	**2.** Phenobarbital	8.00
3. Butalbital	5.97	**3.** Butalbital	8.28
4. Oxazepam	2.80	**4.** Oxazepam	2.11
5. Triazolam	2.19	**5.** Triazolam	0.86
7. p-Xylene	k'=4.06	**7.** p-Xylene	k' = 2.48

*All selectivity values determined using p-xylene.

Symmetrical Peaks for Difficult Samples

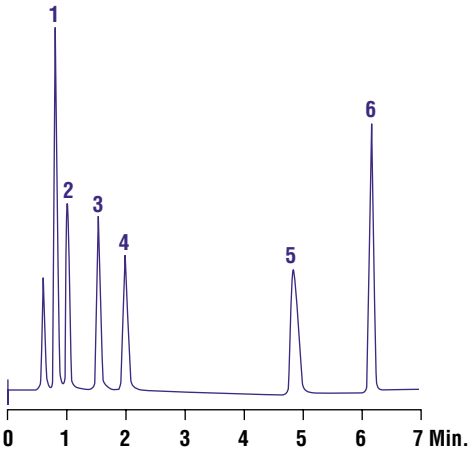
Peak shapes for difficult amine- or carboxyl-containing pharmaceutical compounds are sharp, symmetrical and easily integrated.

Catecholamines

CHROM 8903

1. Noradrenaline (norepinephrine)
2. Adrenaline (epinephrine)
3. Dopamine (3-Hydroxytyramine)
4. 3,4-Dihydroxyphenylalanine (DOPA)
5. Phenylalanine
6. Homovanillic Acid (HVA)

Standard Platinum C18 Column



Column: Platinum C18, 3µm, 53 x 7mm Rocket™
Mobile Phase: **A:** 0.15% TFA, **B:** Acetonitrile
Gradient:

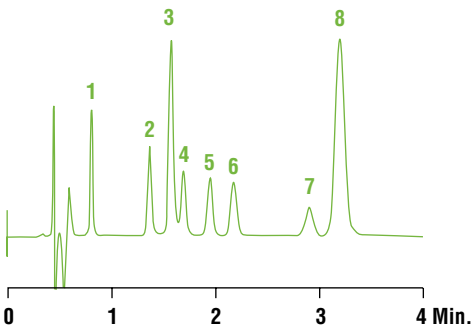
Time:	0	3	12	15
%B	3	3	65	65

Flow Rate: 2.5mL/min
Detector: ELSD

Barbiturates

CHROM 8684

Platinum EPS C18 Column



1. Barbital
2. Butalbarbital
3. Aprobarbital
4. Talbutal
5. Butabarbital
6. Phenobarbital
7. Amobarbital
8. Mephobarbital

Column: Platinum EPS C18, 3µm, 53 x 7mm Rocket
Mobile Phase: 0.010M Sodium Acetate, pH 4.0: Acetonitrile (75:25)
Flow Rate: 3.0mL/min
Detector: UV at 230nm

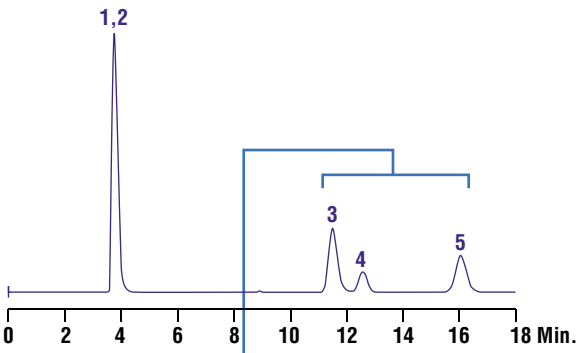
Reverse Elution Order with Standard Platinum™ and Platinum EPS Columns

Separation improves when minor components elute before, rather than after, closely retained major components. The Standard Platinum / Platinum EPS Column combination lets you choose elution order, which can improve separation — another powerful method development tool.

Vasodilators

CHROM 8387

Standard Platinum C18 Column

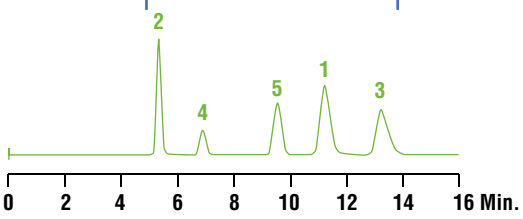


N O T E

The elution order changes between Standard Platinum and Platinum EPS Columns.

CHROM 8388

Platinum EPS C18 Column



1. Pindolol
2. Pentoxifylline
3. Isoxsuprine
4. Nifedipine Degradant
5. Nifedipine

Column: 5µm, 150 x 4.6mm
Mobile Phase: 0.025M KH_2PO_4, pH 3.0:Methanol (50:50)
Flow Rate: 1.0mL/min
Detector: UV at 220nm

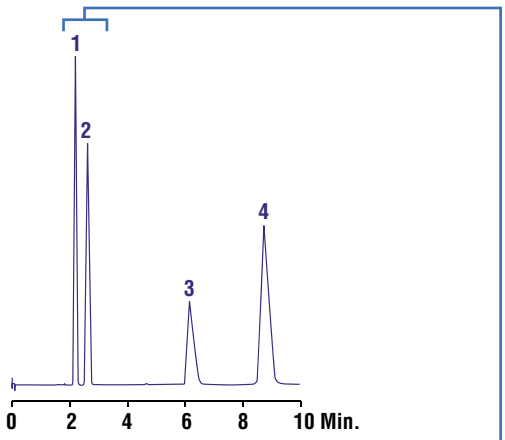
Platinum EPS Columns Have High Polar Compound Capacity

This is especially important for early eluting polar compounds which are often unresolved on conventional reversed phase columns.

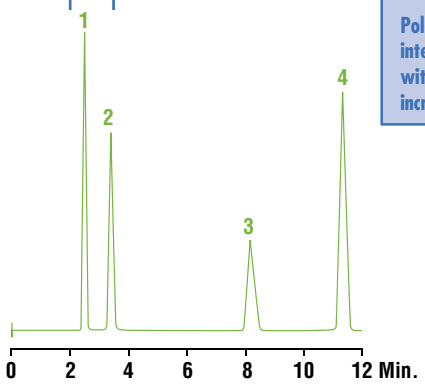
Local Anesthetics

CHROM 8159

Standard Platinum C18 Column



Platinum EPS C18 Column



N O T E

Polar compounds interact strongly with Platinum for increased capacity

CHROM 8158

1. Procaine
2. Mepivacaine
3. Tetracaine
4. Dibucaine

Column: 5µm, 150 x 4.6mm
Mobile Phase: **A:** 0.025M KH_2PO_4,
B: pH 3.0:Methanol (50:50)
Gradient:

Time:	0	12
%B:	35	60

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

Capacity Factor Values (k')

Compound	Standard Platinum C18	Platinum EPS C18
1. Procaine	0.44	0.86
2. Mepivacaine	0.70	1.40
3. Tetracaine	3.04	4.30
4. Dibucaine	4.74	6.28

Polar Selectivity Benefits

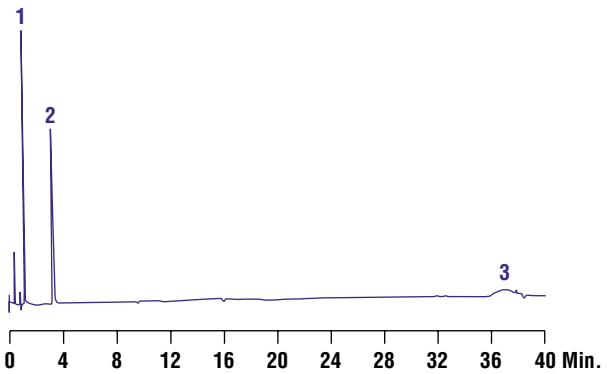
Use Platinum™ EPS Columns to Reduce Run Times

Reduced retention, better peak shape, and greater sensitivity of dioctylphthalate on the Platinum EPS Column compared to the conventional reversed phase C18 column.

Phthalates

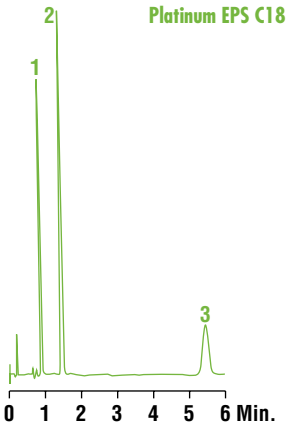
CHROM 9256

Standard Platinum C18 Column



CHROM 9255

Platinum EPS C18 Column



1. Dimethylphthalate
2. Dibutylphthalate
3. Dioctylphthalate

Columns: Rocket™ Column, 3µm, 53 x 7mm
Mobile Phase: Acetonitrile:Water (65:35)
Flow Rate: 2.3mL/min
Detector: UV at 254nm

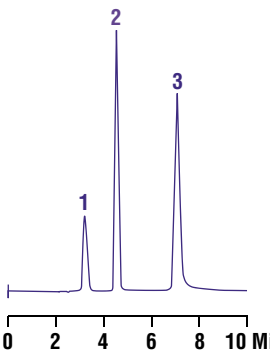
Sharp, Symmetrical Peaks

Platinum Columns produce sharp, symmetrical peaks for these sensitive metal chelators. The competitive column, despite a higher bonded phase loading, cannot make that claim.

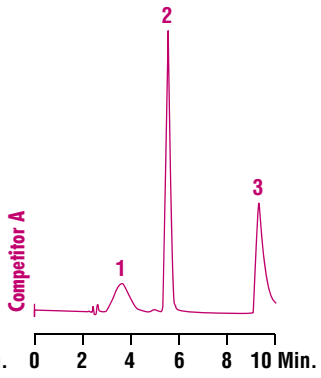
Metal Chelators

CHROM 8170

Standard Platinum C18 Column



CHROM 8172

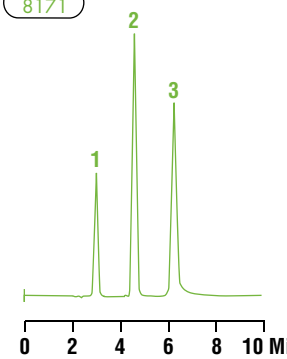


NOTE
Platinum Column produces sharp symmetrical peaks for chelators.

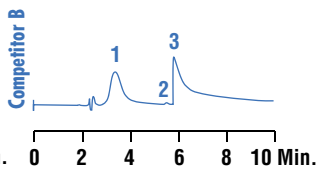
NOTE
Chelators interact with metals on competitive reversed-phase packings.

CHROM 8171

Platinum EPS C18 Column



CHROM 8173



1. 2,4-Pentanedione
2. 2,2-Dipyridyl
3. 8-Hydroxyquinoline

Columns: 5µm, 150 x 4.6mm
Mobile Phase: Methanol:Tetrahydrofuran: 0.025M K_2HPO_4, pH 7 (20:20:60)
Flow Rate: 0.7mL/min
Detector: UV at 254nm

Reproducibility that Stands the Test of Time

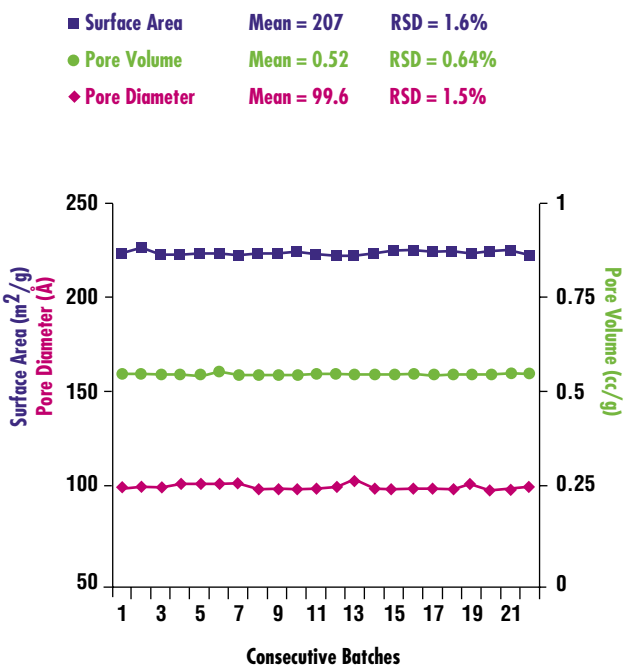
Reproducible columns are the key to rugged, reproducible methods. Platinum™ Columns meet this goal with reproducible silica synthesis, bonding, and column packing.

Platinum Column's manufacturing process controls selectivity, capacity and efficiency — the three factors that control resolution in your method!

Reproducible Silica Synthesis and Bonding Minimize Capacity and Selectivity Variations

Platinum silica's exceptional consistency is the foundation of Platinum column performance. Stringent quality control standards produce unmatched batch-to-batch reproducibility.

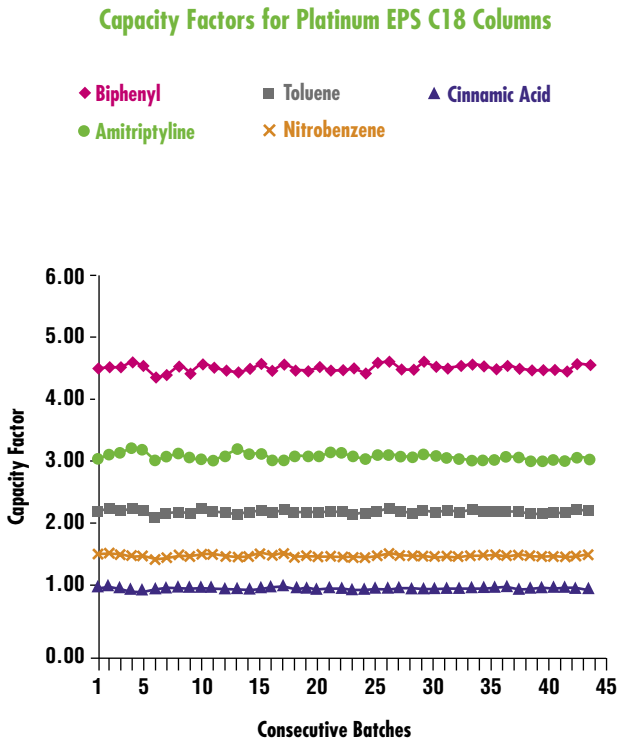
Platinum Silica's Surface Area, Pore Volume and Pore Diameter are Exceptionally Consistent



Reproducible Column Packing Methods Control Efficiency, Symmetry, and Operating Pressure

Alltech's advanced column packing methods minimize column-to-column variation. Efficiency, symmetry, and operating pressure are all tightly controlled.

Platinum HPLC Columns Are Among the Most Reproducible in the Industry



The GRACE Davison Product Lines

Alltech DAVISIL CROM JONES CHROMATOGRAPHY mODcol VYDAC

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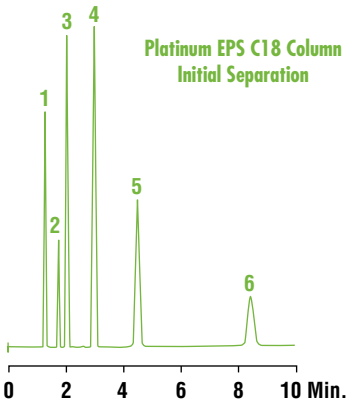
Stability for Long Column Life

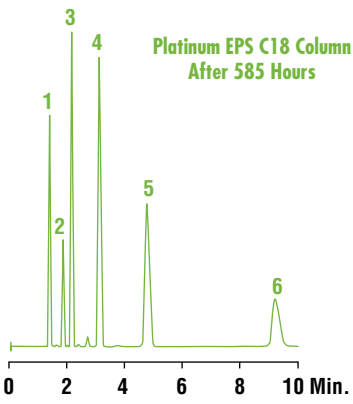
Platinum™ Columns deliver long life and stable performance, even under extreme conditions. Methods developed today will work well tomorrow, next week, and next year.

Extreme pH and Temperature Conditions

Platinum Columns tolerate highly acidic conditions (pH 1, 60°C) for more than 500 hours without losing performance.

Performance Remains Stable, Even After 500+ Hours Under Extreme Conditions (pH 1, 60°C)





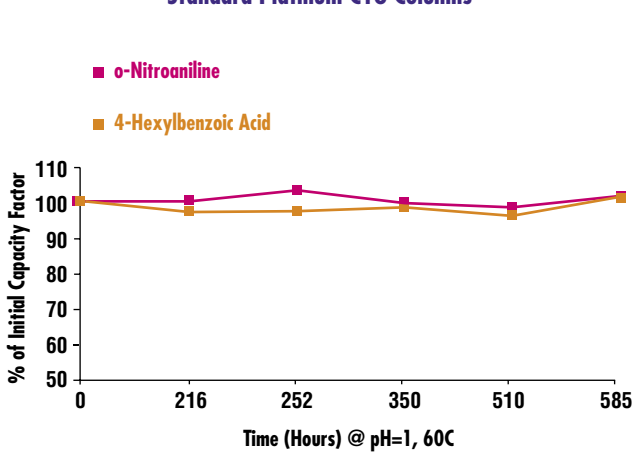
1. Uracil
2. Phenol
3. o-Nitroaniline
4. Toluene
5. 4-Hexylbenzoic Acid
6. 4-Octylbenzoic Acid

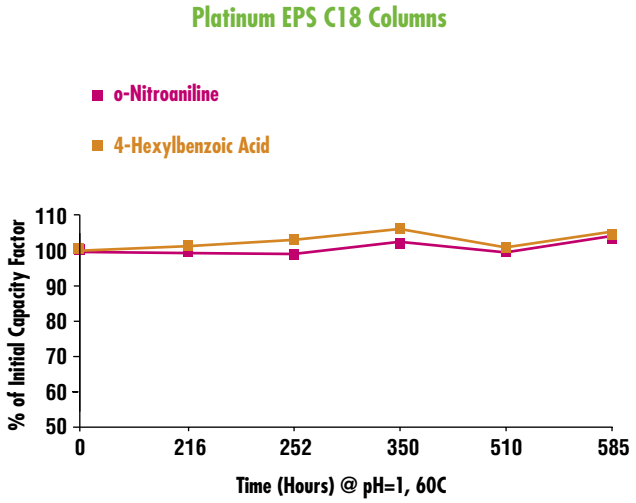
Column: 5µm, 150 x 4.6mm
Mobile Phase: Acetonitrile: 0.05M KH_2PO_4,pH 3.2 (65:35)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Column Capacity and Selectivity Remain Constant

Platinum Columns do more than just withstand low-pH and high-temperature conditions; they deliver constant capacity and selectivity.

Capacity Factors are Stable Throughout the Study





The GRACE Davison Product Lines

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Platinum™ Columns Simplify Method Development

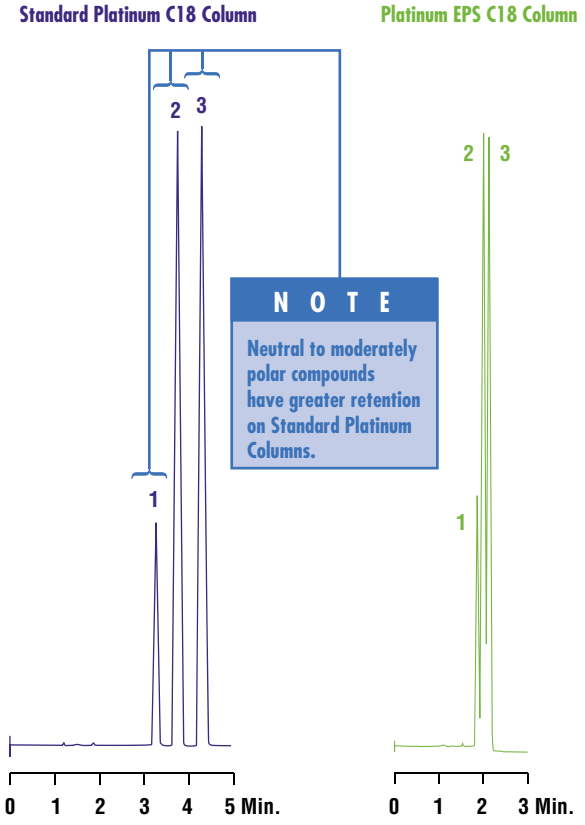
Use Standard Platinum Columns for Neutral and Moderate Polarity Compounds

Standard Platinum Columns offer less silanol interaction than Platinum EPS Columns. Neutral to moderately polar compounds with few polar functional groups interact weakly with controlled silanols and are retained primarily by reversed-phase mechanisms. For example, nitroanilines are retained and separated on Standard Platinum Columns primarily by hydrophobic interactions.

Positional Isomers of Nitroaniline

CHROM 8152

CHROM 8286



1. o-Nitroaniline
2. p-Nitroaniline
3. m-Nitroaniline

Column: 5µm, 150 x 4.6mm
Mobile Phase: Acetonitrile: 0.05M KH_2PO_4 Monobasic pH 3.15, (50:50)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

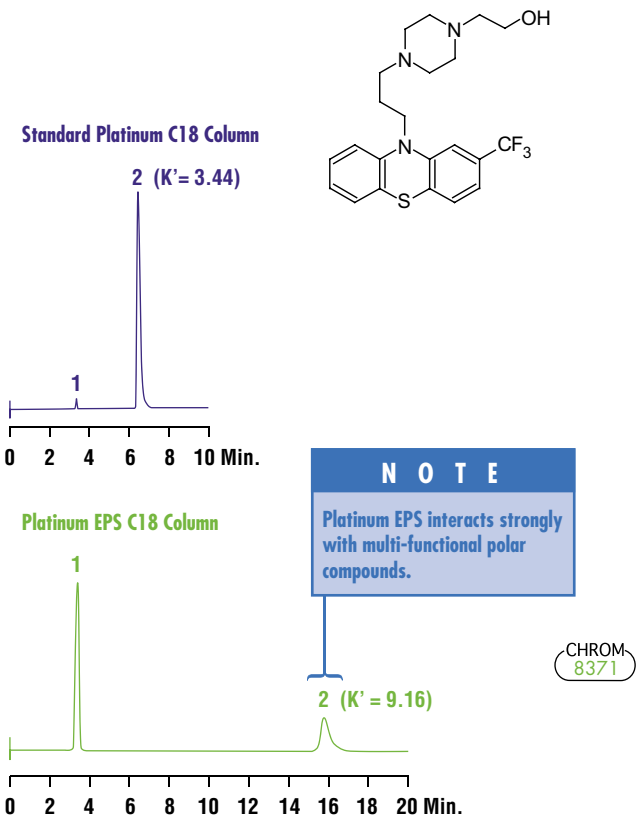
Use Platinum EPS Columns for Greater Separation of Compounds with Several Polar Groups

Highly polar compounds with more than two polar functional groups interact strongly with Platinum's silanols. The degree of polar interaction varies by functional group as follows:

NH_2 > COOH > CHO > CN =OH > NO_2 > OCH_3 > Cl > F > Br > CH_3

Fluphenazine

CHROM 8370



CHROM 8371

1. Toluene
2. Fluphenazine

Column: 5µm, 250 x 4.6mm
Mobile Phase: Methanol:Acetonitrile: 0.05 M Ammonium Acetate pH 6.5, (2:2:1)
Flow Rate: 1.2 mL/min
Detector: UV at 254nm

Pharmaceutical Applications

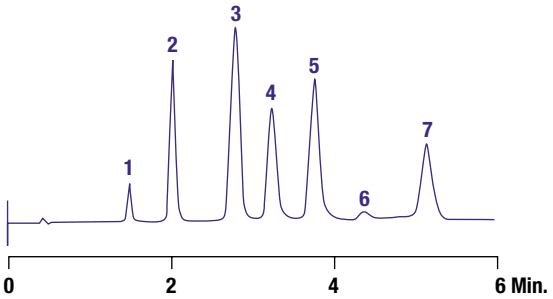
Platinum™ Columns Solve Tough Pharmaceutical Analysis Problems

In pharmaceutical analysis, Platinum Column's utility ranges from general USP methods to specific in-process testing. In drug purity analysis, Platinum's polar selectivity increases resolution between parent compounds and degradants. During method development, Standard Platinum and Platinum EPS Columns can be used to generate alternative selectivities to most reversed-phase columns.

Benzodiazepines and Metabolites

CHROM 8691

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

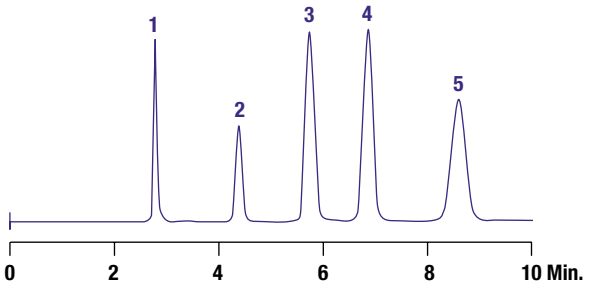


Column: Platinum EPS C18, 3µm, 53 x 7mm Rocket™
Mobile Phase: 0.05M Ammonium Acetate, pH5.5: Acetonitrile (65:35)
Flow Rate: 3.0mL/min
Detector: UV at 254nm

Antibacterials

CHROM 8711

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

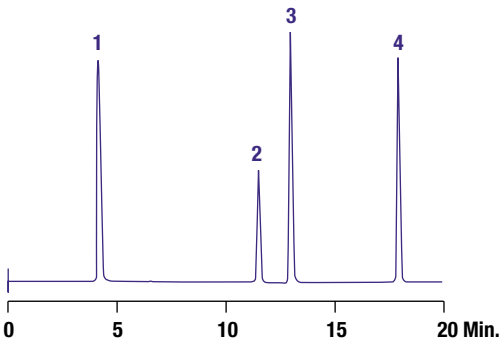


Column: Platinum EPS C18, 5µm, 150 x 4.6mm
Mobile Phase: 0.025M KH_2PO_4, pH 3: Acetonitrile (90:10)
Flow Rate: 1.0mL/min
Detector: UV at 230nm

Famotidine

CHROM 8758

1. Famotidine
2. Sodium Benzoate
3. Methylparaben
4. Propylparaben



Column: Platinum EPS C18, 5µm, 150 x 4.6mm
Mobile Phase: **A:** 50mM KH_2PO_4, pH 3.0 **B:** ACN

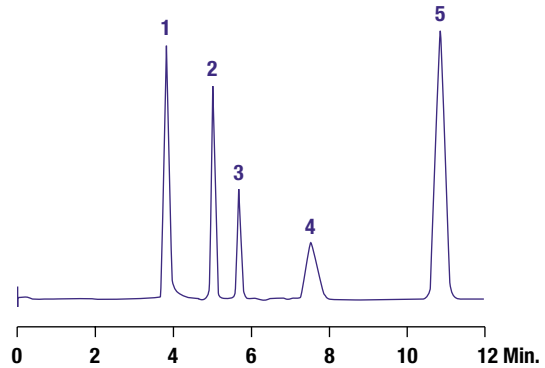
Time:	0	5	15	20
%B:	10	10	40	40

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

Biogenic Amines

CHROM 8297

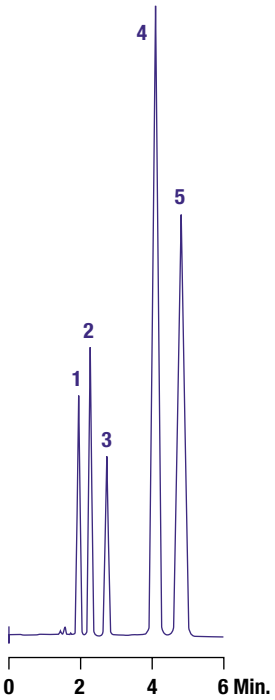
1. Histamine
2. Tyramine
3. Serotonin
4. β-Phenylethylamine
5. Tryptamine



Column: Platinum EPS C18, 5µm, 250 x 4.6mm
Mobile Phase: Acetonitrile:0.03M KH_2PO_4 pH 3.2 (20:80)
Flow Rate: 1.0mL/min
Detector: UV at 220nm

Sedatives/Hypnotics

CHROM 8160

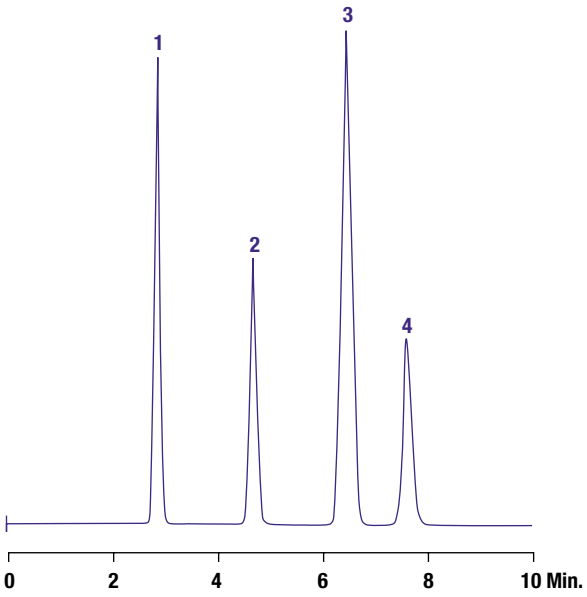


1. Barbital
2. Phenobarbital
3. Butalbital
4. Oxazepam
5. Triazolam

Column: Standard Platinum™ C18, 5µm, 150 x 4.6mm
Mobile Phase: Methanol:Acetonitrile:0.05M $NH_4H_2PO_4$, pH 4.5, (50:10:40)
Flow Rate: 1.0mL/min
Detector: UV at 230nm

Central and Respiratory Stimulants

CHROM 8169

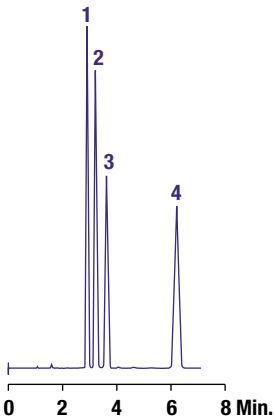


1. Theophylline
2. Caffeine
3. Ethamivan
4. 8-Chlorotheophylline

Column: Platinum EPS C18, 5µm, 150 x 4.6mm
Mobile Phase: Methanol:Acetonitrile:1% Acetic Acid, pH 3.2 (30:10:60)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Anti-Convulsants

CHROM 8163

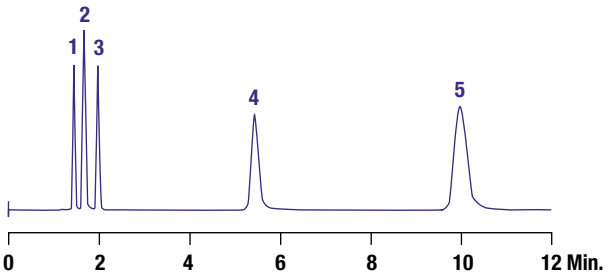


1. Ethotoin
2. Methsuximide
3. Methetoin
4. Carbamazepine

Column: Platinum EPS C18, 5µm, 150 x 4.6mm
Mobile Phase: Methanol:Acetonitrile:0.005M NaH_2PO_4, pH=5.5, (30:20:50)
Flow Rate: 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: Platinum EPS C18, 5µm, 150 x 4.6mm
Mobile Phase: 0.05M KH_2PO_4, pH 3.2:Acetonitrile (65:35)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Environmental Applications

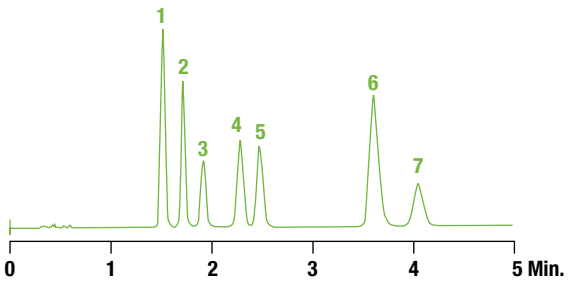
Extended Polar Selectivity Separates Environmental Contaminants

Platinum™ Column's extended polar selectivity easily resolves closely-related environmental contaminants for improved detection and quantitation. Conventional HPLC columns frequently cannot separate structurally-similar toxic environmental contaminants. Platinum Columns separate triazine herbicides, phenols, and pesticides with exceptional resolution.

Triazine Herbicides

CHROM 8671

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

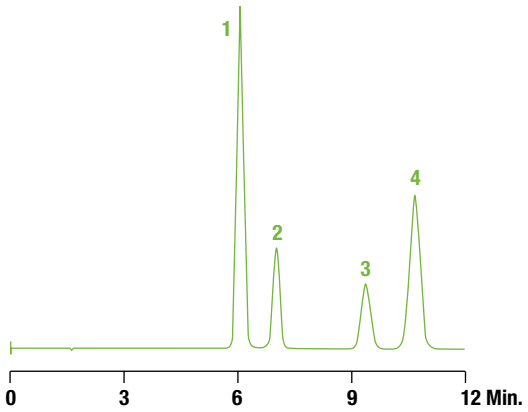


Column: Platinum EPS C18, 1.5µm, 33 x 7mm Rocket™
Mobile Phase: 0.025M KH_2PO_4 pH3:Acetonitrile (65:35)
Flow Rate: 2.0mL/min
Detector: UV at 254nm

Organochlorine Pesticides

CHROM 8437

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

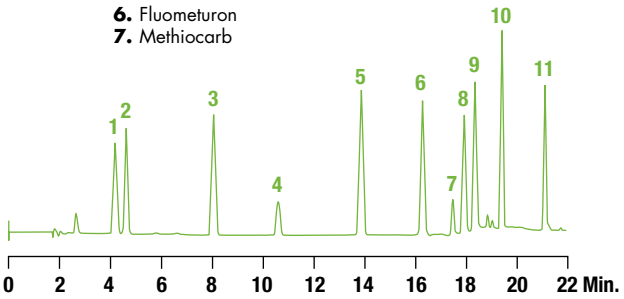


Column: Standard Platinum C18, 5µm, 150 x 4.6mm
Mobile Phase: Methanol:0.025M K_2HPO_4, pH 7 (75:25)
Flow Rate: 1.0mL/min
Detector: UV at 220nm

Carbamate and Urea Pesticides

CHROM 8293

1. Oxamyl
2. Methomyl
3. Fenuron
4. Aldicarb
5. Monuron
6. Fluometuron
7. Methiocarb
8. Siduron
9. Diuron
10. Linuron
11. Neburon



Column: Platinum EPS C18, 5µm 150 x 4.6mm
Mobile Phase: **A:** 0.025M KH_2PO_4, pH 3.2
B: Acetonitrile
Gradient:

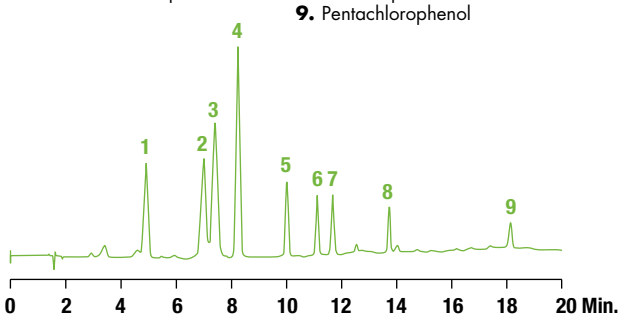
Time:	0	2	20	30
%B:	20	20	60	60

Flow Rate: 1.0mL/min
Detector: UV at 240nm

Phenols

CHROM 8289

1. Phenol
2. 4-Nitrophenol
3. 2,4-Dinitrophenol
4. 2-Chlorophenol
5. 2-Nitrophenol
6. 4-Chloro-3-methylphenol
7. 2,4-Dichlorophenol
8. Trichlorophenol
9. Pentachlorophenol



Column: Standard Platinum C18, 5µm 150 x 4.6mm
Mobile Phase: **A:** 1% Glacial Acetic Acid in Water
B: 1% Glacial Acetic Acid in Methanol
Gradient:

Time:	0	20
%B:	35	95

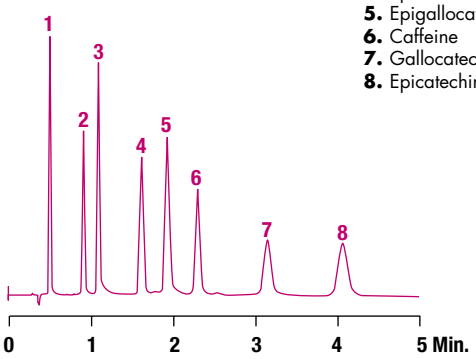
Flow Rate: 1.0mL/min
Detector: UV at 280nm

Platinum™ Column's Dual Retention Mechanism Streamlines Food Analysis

Platinum Columns makes critical food QC methods easier to develop and simpler and faster to run. One Platinum Column, with both reversed-phase and silanophilic retention mechanisms, often replaces two conventional columns in complex food analysis methods.

Catechins in Green Tea

CHROM 8825

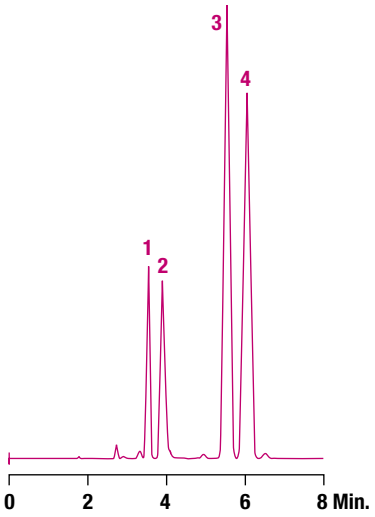


1. Gallic Acid
2. Epigallocatechin
3. Catechin
4. Epicatechin
5. Epigallocatechin Gallate
6. Caffeine
7. Gallocatechin
8. Epicatechin Gallate

Column: Platinum EPS C18, 1.5µm, 33 x 7mm Rocket™
Mobile Phase: 0.05% v/v TFA in 87:13 Water:ACN
Flow Rate: 2.5mL/min
Detector: UV at 210nm

Fat Soluble Vitamins

CHROM 8280

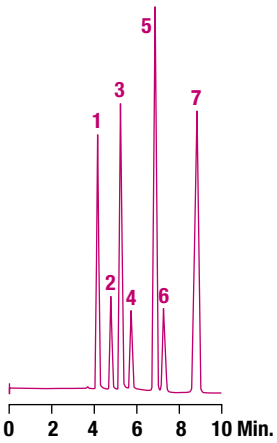


1. Vitamin E
2. Vitamin K1
3. Vitamin D2
4. Vitamin D3

Column: Platinum EPS C18, 5µm, 150 x 4.6mm
Mobile Phase: Acetonitrile:Methanol (95:5)
Flow Rate: 1.0mL/min
Detector: UV at 280nm

Organic Acids

CHROM 8244

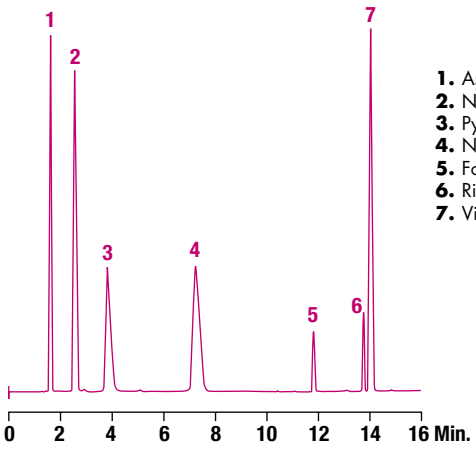


1. Tartaric Acid
2. Malic Acid
3. Lactic Acid
4. Diglycolic Acid
5. Maleic Acid
6. Succinic Acid
7. Fumaric Acid

Column: Platinum EPS C8, 5µm, 150 x 4.6mm
Mobile Phase: 0.025M KH_2PO_4, pH 2.5: Methanol (97:3)
Flow Rate: 0.7mL/min
Detector: UV at 220nm

Water Soluble Vitamins

CHROM 8154



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

Column: Standard Platinum C18, 5µm, 150 x 4.6mm
Mobile Phase: **A:** 0.1M $NH_4H_2PO_4$ Buffer, pH4.5
B: Acetonitrile
Gradient:

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

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

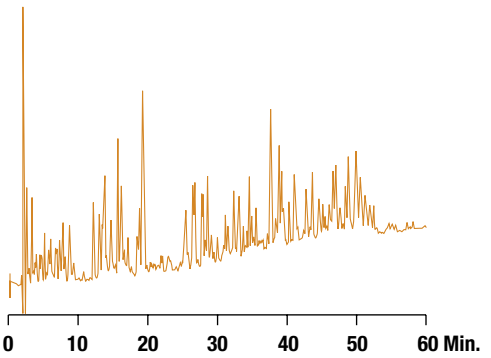
Biotech Applications

Platinum™ EPS Columns Easily Separate Highly Polar Biotech Products

Platinum Column's dual-mode reversed-phase/silanophilic retention mechanism is a perfect match for biotechnology applications. Biopolymers and their building blocks all have structures with polar and non-polar regions. Platinum packing's bonded phase interacts with the non-polar regions, while the controlled silanols interact with the polar regions. This powerful combination is a versatile tool for biotechnology applications.

Tryptic Digest of Bovine Serum Albumin

CHROM 8852



Column: Standard Platinum C18, 300Å, 5µm, 150 x 4.6mm
Mobile Phase: **A:** 0.15% TFA in Water
B: 0.13% TFA in 95:5 Acetonitrile:Water
Gradient:

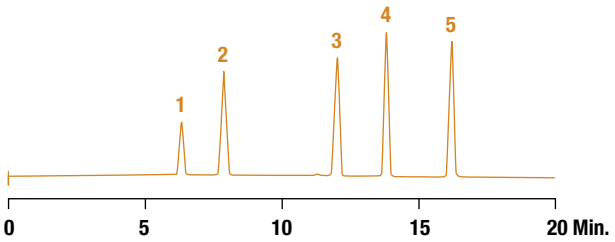
Time:	0	60
%B	5	35

Flow Rate: 1.0mL/min
Detector: UV at 216nm

Nucleosides

CHROM 8245

1. Cytidine
2. Uridine
3. Xanthine
4. Guanosine
5. Adenosine



Column: Platinum EPS C18, 5µm, 150 x 4.6mm
Mobile Phase: **A:** 0.03M KH_2PO_4, pH 3.2
B: Acetonitrile
Gradient:

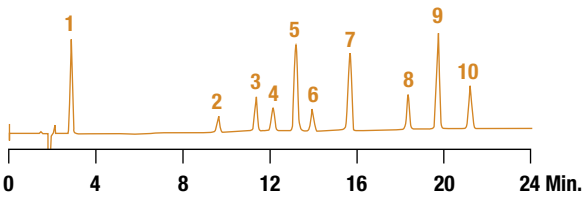
Time:	0	2	20
%B:	5	5	30

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

Peptides (≥5 Amino Acid Residues)

CHROM 8723

1. Peptide T
2. (Arg-8)-Vasotocin
3. (Lys-8)-Vasopressin
4. (Arg-8)-Vasopressin
5. Methionine Enkephalin
6. Oxytocin
7. Leucine Enkephalin
8. Physalaemin
9. Bombesin
10. Angiotensin I



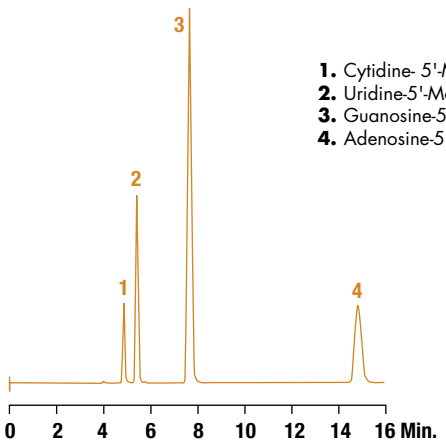
Column: Platinum EPS C18, 5µm, 150 x 4.6mm
Mobile Phase: **A:** 0.15% v/v TFA in Water
B: 0.13% v/v TFA in 95:5 Acetonitrile:Water
Gradient:

Time:	0	2	30
%B:	15	15	55

Flow Rate: 1.0mL/min
Detector: UV at 216nm

Monophosphate Nucleotides

CHROM 8296



1. Cytidine- 5'-Monophosphate
2. Uridine-5'-Monophosphate
3. Guanosine-5'-Monophosphate
4. Adenosine-5'-Monophosphate

Column: Platinum EPS C18, 5µm, 150 x 4.6mm
Mobile Phase: Methanol:0.05M Ammonium Acetate pH 5.5 (5:95)
Flow Rate: 1.0mL/min
Detector: UV at 254nm

Platinum™ HPLC Columns

Platinum HPLC Columns are available in a variety of formats. Choose from Analytical and Solvent reducing formats to preparative formats. Custom sizes are also available.

High-Speed Rocket™ Columns Reduce Analysis Time and Solvent Consumption

Separations normally performed on conventional 150mm x 4.6mm columns run faster on Rocket Columns and use less mobile phase, saving both time and money.

Actual Size (33 x 7mm)

Standard Platinum/ Platinum EPS Media Specifications	100Å Packings
Base Material:	Spherical Silica
Particle Size:	1.5, 3, 5 and 10µm
Pore Volume:	0.51cc/g
Surface Area:	200m2/g

PLATINUM ALL-GUARD™ CARTRIDGES*

Packing	I.D. x Length	Qty	Part No.
C18	3.0 x 7.5mm	3	99115
	4.6 x 7.5mm	3	32606
EPS C18	3.0 x 7.5mm	3	99117
	4.6 x 7.5mm	3	32607
C8	4.6 x 7.5mm	3	32612
EPS C8	4.6 x 7.5mm	3	32614
Phenyl	4.6 x 7.5mm	3	32619
Cyano	4.6 x 7.5mm	3	32620
Amino	4.6 x 7.5mm	3	32621
Silica	4.6 x 7.5mm	3	32622
SAX	4.6 x 7.5mm	3	32787
All-Guard Cartridge Holder (Includes Direct-Connect™ Column Coupler)		ea	80101

*Guard Holder required

PLATINUM PREP-GUARD COLUMNS*

Packing	I.D. x Length	Qty	Part No.
EPS C18	7 x 33mm	1	970216
Direct-Connect Column Coupler		ea	28195

*Direct-Connect Column Coupler required

PLATINUM HPLC COLUMNS

Packing	Format	I.D. x Length	Part No.
C18, 1.5µm	Rocket	7 x 33mm	50527
	Rocket	7 x 53mm	50529
C18, 3µm	Solvent Reducer	3.0 x 150mm	32794
	Analytical	4.6 x 100mm	32007
	Analytical	4.6 x 150mm	32020
	Rocket	7 x 33mm	50525
	Rocket	7 x 53mm	50523
C18, 5µm	Solvent Reducer	3.0 x 150mm	32793
	Solvent Reducer	3.0 x 250mm	32792
	Analytical	4.6 x 150mm	32043
	Analytical	4.6 x 250mm	32064
EPS C18, 1.5µm	Rocket	7 x 33mm	50577
	Rocket	7 x 53mm	50579
EPS C18, 3µm	Solvent Reducer	3.0 x 150mm	32799
	Analytical	4.6 x 100mm	32158
	Analytical	4.6 x 150mm	32183
	Rocket	7 x 33mm	50575
	Rocket	7 x 53mm	50573
EPS C18, 5µm	Solvent Reducer	3.0 x 150mm	32806
	Solvent Reducer	3.0 x 250mm	32802
	Analytical	4.6 x 150mm	32214
	Analytical	4.6 x 250mm	32246
	Prep	10 x 150mm	82083
	Prep	22 x 150mm	82093
	Prep	22 x 250mm	82095
C8, 1.5µm	Rocket	7 x 53mm	50529
C8, 3µm	Rocket	7 x 33mm	50532
C8, 5µm	Analytical	4.6 x 150mm	32370
	Analytical	4.6 x 250mm	32375
	Analytical	4.6 x 250mm	32943
EPS C8, 3µm	Analytical	4.6 x 150mm	32415
	Rocket	7 x 33mm	50583
	Rocket	7 x 53mm	50585
EPS C8, 5µm	Analytical	4.6 x 150mm	32420
	Analytical	4.6 x 250mm	32425
Phenyl, 3µm	Analytical	4.6 x 150mm	32631
Phenyl, 5µm	Analytical	4.6 x 150mm	32636
	Analytical	4.6 x 250mm	32641
Cyano, 3µm	Rocket	7 x 33mm	50593
	Rocket	7 x 53mm	50595
Cyano, 5µm	Analytical	4.6 x 150mm	32672
	Analytical	4.6 x 250mm	32681
Amino, 3µm	Analytical	4.6 x 150mm	32706
	Rocket	7 x 53mm	50545
Amino, 5µm	Analytical	4.6 x 150mm	32713
	Analytical	4.6 x 250mm	32722
Silica, 3µm	Analytical	4.6 x 150mm	32535
Silica, 5µm	Analytical	4.6 x 150mm	32542
	Analytical	4.6 x 250mm	32549
SAX, 3µm	Analytical	4.6 x 150mm	32952
SAX, 5µm	Analytical	4.6 x 150mm	32944
	Analytical	4.6 x 250mm	32943

Stock up and Save with Alltech Start-Up Packages

Basic Start-Up Package

Provides the essential products for HPLC system start-up. No frills and no unnecessary cost.

BASIC START-UP PACKAGE			
Description	**Material**	**Qty.**	**Part No.**
Basic Start-Up Package	—	1	**97817**
Replacement Individual Components			
Short Hex-Head Nuts/Ferrules	PEEK	10	35744
Long Hex-Head Nuts/Ferrules	PEEK	10	35735
Short Finger-Tight™ One Piece*	PEEK	12	32070
1/8" Flange-Free™ Nuts	PEEK	10	37075
1/8" Flange-Free™ Ferrules	Tefzel®	10	20242
1/16" x 0.020" i.d. Tubing	PEEK	10'	35708
1/16" x 0.007" i.d. Tubing	PEEK	10'	35712
1/8" x 0.063" i.d. Tubing	TFE	10'	20063
Plastic Tubing Cutter	—	1	3206
Replacement Blade	—	1	3214
10µm Solvent Inlet Filter	SS	2	28870
20µL Sample Loop	PEEK	1	32195
Open-End Wrench, 1/4" x 5/16"	—	1	1998
Union	PEEK	1	32141

SAVE * Purchasing a package saves you the indicated percentage compared to individual component list prices.

Advanced Start-Up Package

Keeps your HPLC consumables stocked full with products that maximize system and lab efficiency.

ADVANCED START-UP PACKAGE			
Description	**Material**	**Qty.**	**Part No.**
Advanced Start-Up Package	—	1	**97818**
Replacement Individual Components			
Short Hex-Head Nuts/Ferrules	PEEK	10	35744
Long Hex-Head Nuts/Ferrules	PEEK	10	35735
Short Finger-Tight™ No-Slip Fitting*	PEEK	24	32937
Long Finger-Tight™ No-Slip Fitting	PEEK	10	32295
1/8" Flange-Free™ Nuts	PEEK	10	37075
1/8" Flange-Free™ Ferrules	Kel-F®	10	201251
1/16" x 0.020" i.d. Tubing	PEEK	20'	35708
1/16" x 0.005" i.d. Tubing	PEEK	20'	35714
1/8" x 0.063" i.d. Tubing	TFE	10'	20063
Clean-Cut™ Tubing Cutter	—	1	35902
Replacement Blade	—	2	35903
10µm Last-Drop™ Inlet Filter	PAT®	2	28839
In-Line Filter, 2µm	PAT®	1	68250
Replacement Filter Elements	PAT®	5	68152
20µL Flex-Connect™ Sample Loop	PEEK	1	32195
100µL Flex-Connect™ Sample Loop	PEEK	1	32204
Handy-Lok Fitting Wrench	—	1	35751
Open-End Wrench, 1/4" x 5/16"	—	1	1998
Union	PEEK	2	32141

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