

ULTRASPHERE®

by Beckman Coulter

- High reproducibility
- Stable packed material provides long column life
- High efficiency and improved resolution

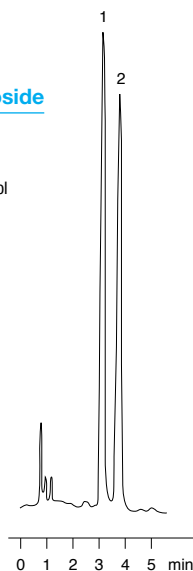
The key performance characteristics for selecting HPLC columns are usually resolution, efficiency, reproducibility, and stability. Beckman Coulter Ultrasphere® HPLC columns are efficient – high in theoretical plates – which allows for high resolution of complex mixtures.

Additionally, Beckman Coulter columns have excellent reproducibility, so selectivity and absolute retention times remain consistent. Ultrasphere HPLC columns are available in a variety of bonded phases and dimensions. Choosing the proper combination will enable high resolution, high speed or high sensitivity separations.

HPLC
Ultrasphere

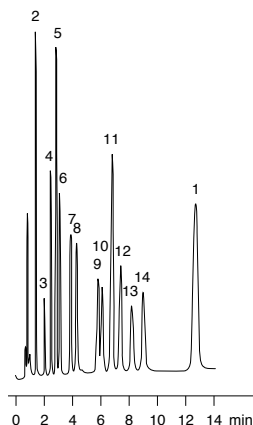
App ID 5649 Digoxin and Digoxigenin Bis-digitoxoside

Column: Ultrasphere 5 µm Si
Dimensions: 250 x 4.6 mm
Part No.: CHO-1431
Mobile Phase: Hexane/Acetic Acid/n-propanol/Methanol (70:2:15:12)
Flow Rate: 3 mL/min
Detection: UV @ 254 nm, 0.05 AUFS
Injection: 20 µL
Sample:
 1. Digoxigenin bis-digitoxoside
 2. Digoxin



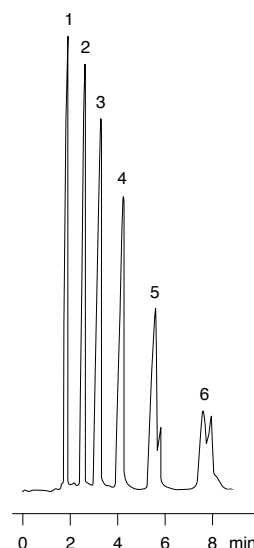
App ID 5651 Serum Standard

Column: Ultrasphere 5 µm C8
Dimensions: 150 x 4.6 mm
Part No.: CHO-1463
Mobile Phase: Phosphate buffer, pH 3.6, with 28 % v/v Acetonitrile
Flow Rate: 3.0 mL/min
Detection: UV @ 197 nm, 0.1 AUFS
Sample:
 1. SMPPH
 2. Primidone
 3. Methyprylon
 4. Aprobarbital
 5. Phenobarbital
 6. Butalbarbital
 7. Butalbarbital
 8. Talbutal
 9. Pentobarbital
 10. Amobarbital
 11. 5,5-Diphenylhydantoin
 12. Glutethimide
 13. Secobarbital
 14. Quaalude



App ID 5650 Porphyrin Marker Esters

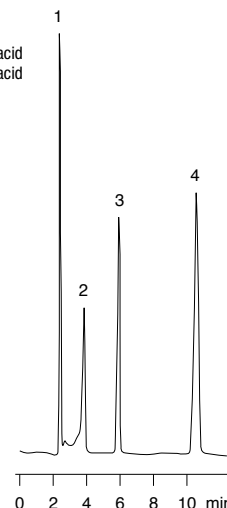
Column: Ultrasphere 5 µm Si
Dimensions: 150 x 4.6 mm
Part No.: CHO-1432
Mobile Phase: Hexane/Ethyl Acetate (55:45)
Detection: UV @ 405 nm
Sample:
 1. R₂-COOMe
 2. R₃-COOMe
 3. R₄-COOMe
 4. R₅-COOMe
 5. R₇-COOMe
 6. R₈-COOMe



NOTE: R= hydrocarbon chain length. Doublets may be due to hydrocarbon branching.

App ID 5656 Anthraquinone

Column: Ultrasphere 5 µm C18-IP
Dimensions: 250 x 4.6 mm
Part No.: CHO-1456
Mobile Phase: Methanol/0.005 M Tetrabutyl Ammonium Phosphate, pH 6.5 (50:50)
Flow Rate: 1.5 mL/min
Detection: UV @ 254 nm, 0.25 AUFS
Injection: 20 µL (80 ng of each acid)
Sample:
 1. Anthraquinone-1, 5-disulphonic acid
 2. Anthraquinone-1, 8-disulphonic acid
 3. Anthraquinone-1-sulphonic acid
 4. Anthraquinone-2-sulphonic acid



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ORDERING INFORMATION

5 µm and 3 µm Packings						
Part No.	Mfr. No.	Description			Unit	Price
CHO-1442	235329	Ultrasphere 5 µm C18	250 x 4.6 mm		ea	
CHO-1443	235330	Ultrasphere 5 µm C18	150 x 4.6 mm		ea	
CHO-1444	243533	Ultrasphere 5 µm C18	45 x 4.6 mm		ea	
CHO-1447	235328	Ultrasphere 5 µm C18	250 x 10.0 mm Semi-prep		ea	
CHO-1450	244434	Ultrasphere 5 µm C18	250 x 2.0 mm MiniBore		ea	
CHO-1451	237390	Ultrasphere 5 µm C18	150 x 2.0 mm MiniBore		ea	
CHO-1453	237500	Ultrasphere-XL 3 µm C18	70 x 4.6 mm cartridge		ea	
CHO-1454	237520	Ultrasphere-XL 3 µm C18	5 x 4.6 mm Guard cartridges		2/pk	
CHO-1430	237060	Cartridge holder only			ea	
CHO-1456	235335	Ultrasphere 5 µm C18 IP	250 x 4.6 mm		ea	
CHO-1457	235334	Ultrasphere 5 µm C18 IP	150 x 4.6 mm		ea	
CHO-1458	243534	Ultrasphere 5 µm C18 IP	45 x 4.6 mm		ea	
CHO-1462	235332	Ultrasphere 5 µm C8	250 x 4.6 mm		ea	
CHO-1463	235333	Ultrasphere 5 µm C8	150 x 4.6 mm		ea	
CHO-1468	237395	Ultrasphere 5 µm C8	150 x 2.0 mm		ea	
CHO-1469	244254	Ultrasphere 3 µm C18	75 x 4.6 mm High Speed		ea	
CHO-1471	238371	Ultrasphere-XL 3 µm C8	Starter Set (1 Analytical cartridge, 2 Guard cartridges and holder)		ea	
CHO-1420	244071	Ultrasphere 5 µm CN	250 x 4.6 mm		ea	
CHO-1421	244070	Ultrasphere 5 µm CN	150 x 4.6 mm		ea	
CHO-1426	237573	Ultrasphere 3 µm CN	75 x 4.6 mm High Speed		ea	
CHO-1430	237060	Cartridge holder only			ea	
CHO-1431	235341	Ultrasphere 5 µm Silica	250 x 4.6 mm		ea	
CHO-1432	235342	Ultrasphere 5 µm Silica	150 x 4.6 mm		ea	
CHO-1433	244011	Ultrasphere 5 µm Silica	45 x 4.6 mm		ea	
CHO-1435	235340	Ultrasphere 5 µm Silica	250 x 10.0 mm		ea	
CHO-1436	237392	Ultrasphere 5 µm Silica	250 x 2.0 mm		ea	

HPLC

Ultrasphere/Ultremex/Vydac

ULTREMEX™

- For availability and Ordering Information please contact your Phenomenex Technical Consultant.

VYDAC®

by Alltech Associates, Inc.

ORDERING INFORMATION

5 µm Columns (mm)							Guard Cartridge Kit	Replacement Cartridges 2/pk	10 µm Columns
	150 x 2.1	250 x 2.1	50 x 4.6	150 x 4.6	250 x 4.6	250 x 10			250 x 4.6
Phases									
300 Å C4	214 TP5215	214 TP52	—	214 TP5415	214 TP54	—	214 GK54	214 GD54	—
300 Å C8	—	—	—	208 TP5415	208 TP54	—	208 GK54	208 GD54	—
300 Å C18	—	201 TP52	—	201 TP5415	201 TP54	201 TP510	201 GK54T	201 GD54T	201 TP104
300 Å C18	218 TP5215	218 TP52	218 TP5405	218 TP5415	218 TP54	218 TP510	218 GK54	218 GD54	218 TP104
300 Å Phenyl	—	—	—	219 TP5415	—	—	—	—	—
Anion (302IC)	—	—	—	—	—	—	—	—	302 IC4.6