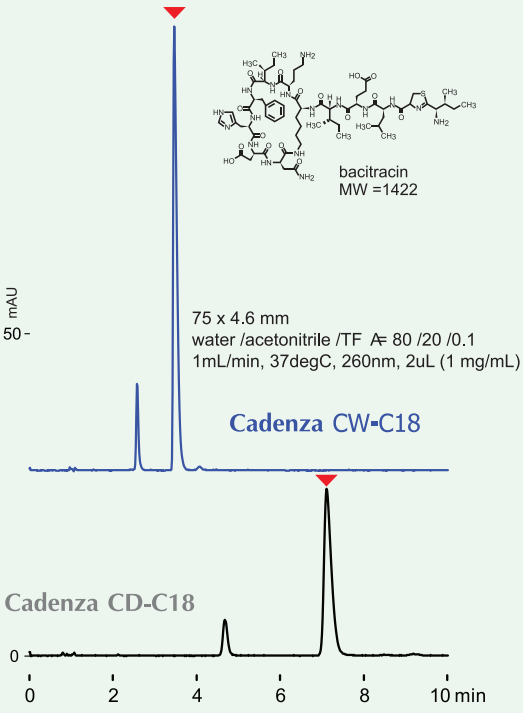
Cadenza CW-C18

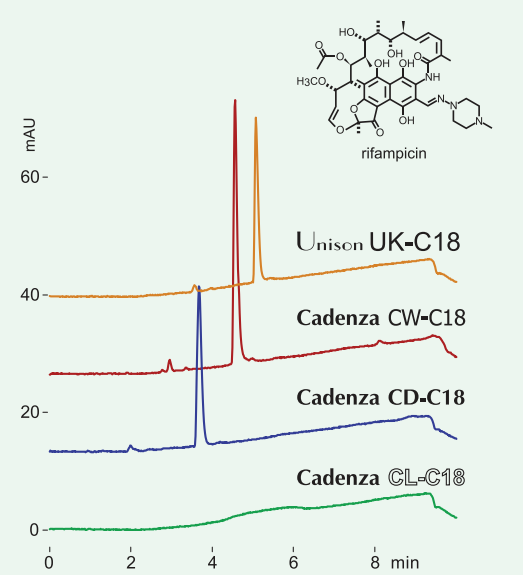
Basic Compounds, Sphingolipids, Antibiotics and Surfactants

- Wide pore for small molecule analysis
- Improved peak shape for basic compounds

Polypeptide Antibiotic

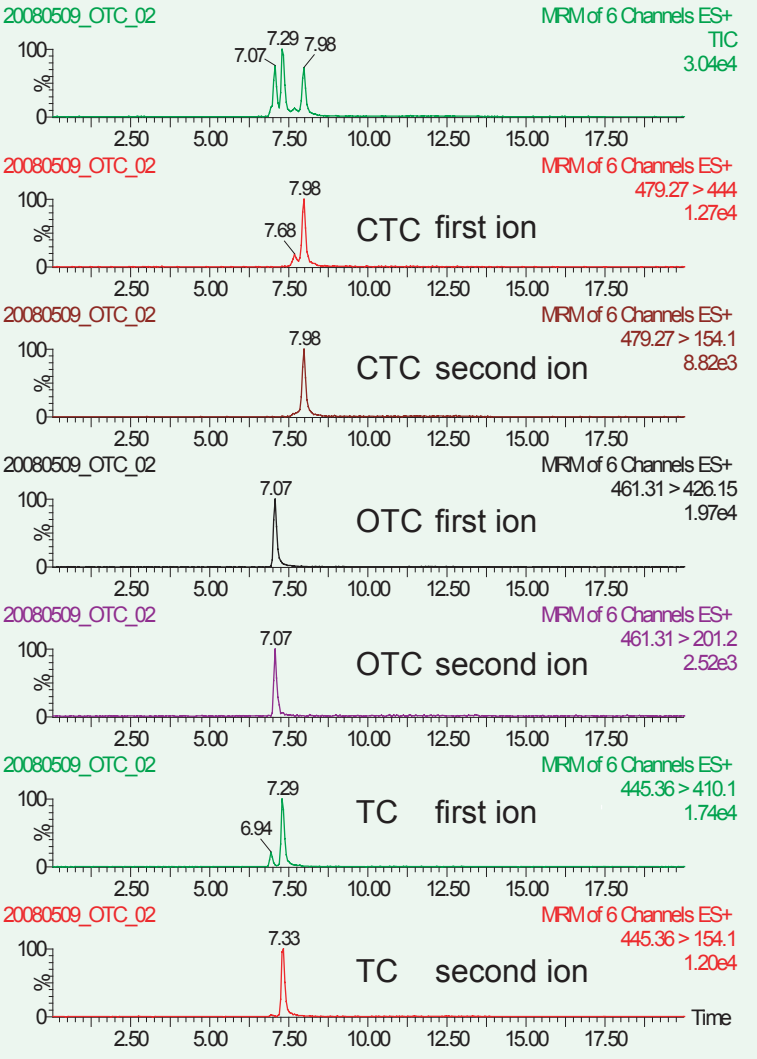


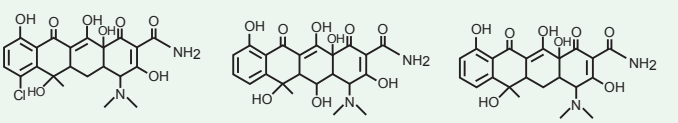
Antibiotic - Rifampicin



75 x 3 mm
A: water / formic acid = 100 / 0.1
B: acetonitrile / formic acid = 100 / 0.1
40-90 %B (0-8min), 0.4 mL/min
37 deg.C, 260 nm, 0.4 uL (0.4ug)

LC-MS/MS Application Tetracycline Antibiotics





chlortetracycline (CTC) | oxytetracycline (OTC) | tetracycline (TC)

Cadenza CW-C18, 100 x 2 mm + Guard column
A: 0.1% HCOOH aq., B: 0.1% HCOOH in ACN
5 - 95%B (0 - 7 min), 95 - 5%B (7 - 8 min), 5%B (8 - 17 min)
0.2 mL/min, 40 deg.C, 10 uL (20 ppb), ESI, positive

Courtesy of Mr. N. MAEDA, ASSOCIATION OF MEAT SCIENCE & TECHNOLOGY INSTITUTE, JAPAN

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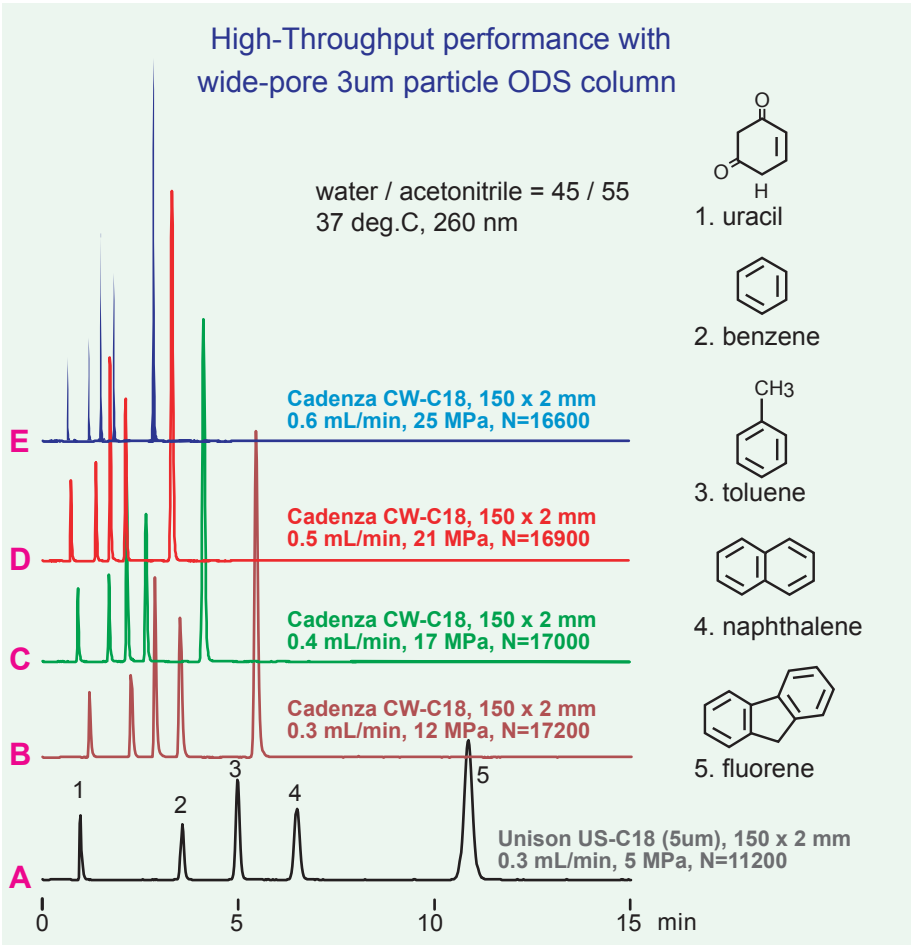
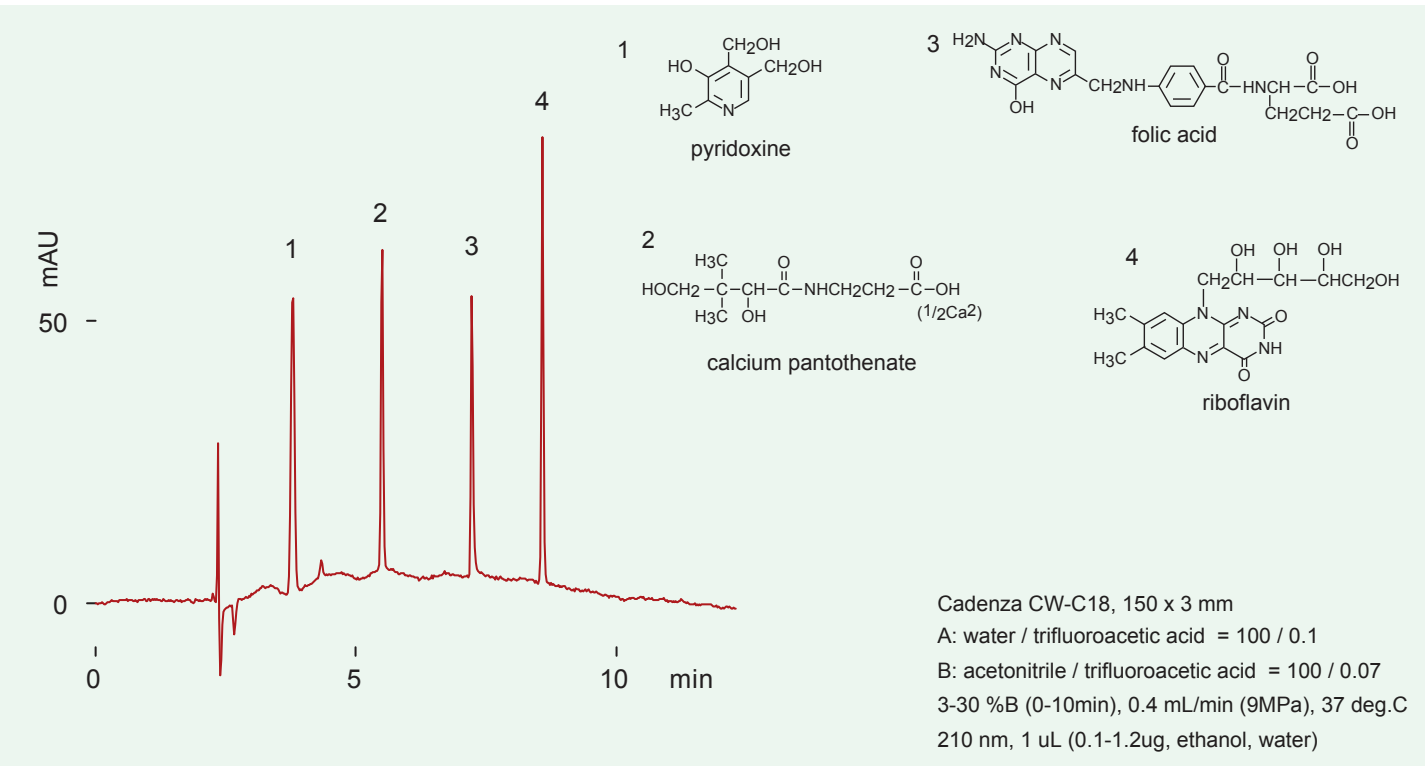


A wide-pore ODS column, Cadenza CW-C18 has 1/3 surface area compared to normal pore-size column. The lower ODS coverage allows for half the analysis time under the same LC conditions. Cadenza CW-C18 is made with 3um high resolution particle technology - producing increased performance compared to 5um column technology (Chromatogram A and B) In addition, it can provide ultra-high speed analysis with pressures that are acceptable for standard HPLC instruments (Chromatogram C to E).

Sub 2um particle columns require extremely high pressures. In contrast, Cadenza CW-C18 (3um) can be operated using normal (standard) HPLC conditions-- resulting in a balance of both low pressure and high plate counts. In addition, a 250mm length column (which is difficult to make using sub-2um particles) is available for high resolution and high speed analysis.

Cadenza CW-C18 can provide many solutions to scientists working with basic compounds, high molecular weight componds, and hydrophilic compounds.

Water Soluble Vitamins



Cadenza CW-C18, 150 x 3 mm
A: water / trifluoroacetic acid = 100 / 0.1
B: acetonitrile / trifluoroacetic acid = 100 / 0.07
3-30 %B (0-10min), 0.4 mL/min (9MPa), 37 deg.C
210 nm, 1 uL (0.1-1.2ug, ethanol, water)

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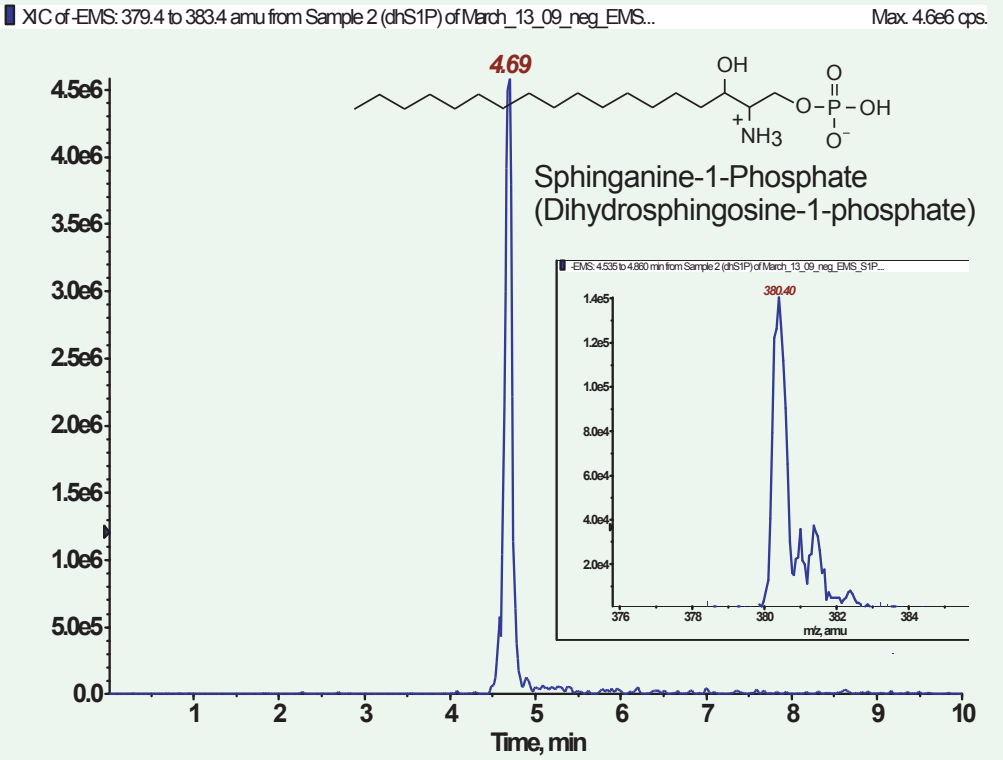
LC-MS/MS Application for Sphingolipids (Sphinganine-1-PO4)

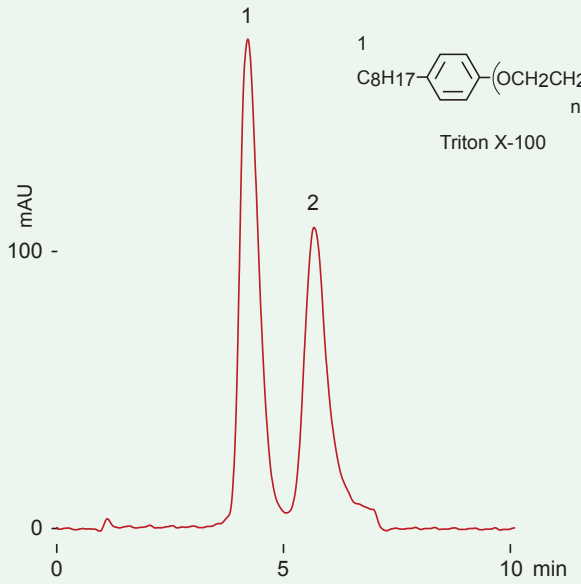


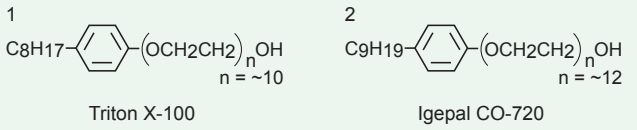
Cadenza CW-C18, 150 x 2 mm
A: [water / HCOOH (100:0.2 v/v)] containing 7mM ammonium formate
B: [methanol / HCOOH (100:0.2 v/v)] containing 5mM ammonium formate
70-90%B (0-1min), 90%B (1-1.5min), 90-100%B (1.5-2.5min),
100%B (2.5-6min), 100-40%B (6-6.5min), 40%B (6.5-10min)
0.2mL/min - 0.28mL/min (0-6min), 0.2mL/min (6-10min)
48deg.C, 5uL (50ug / mL)

Applied Biosystems QTrap, ESI Negative

Courtesy of Jennifer Ro and Joe Williams
Department of Evolution, Ecology, and Organismal Biology,
Ohio State University - USA

Surfactants



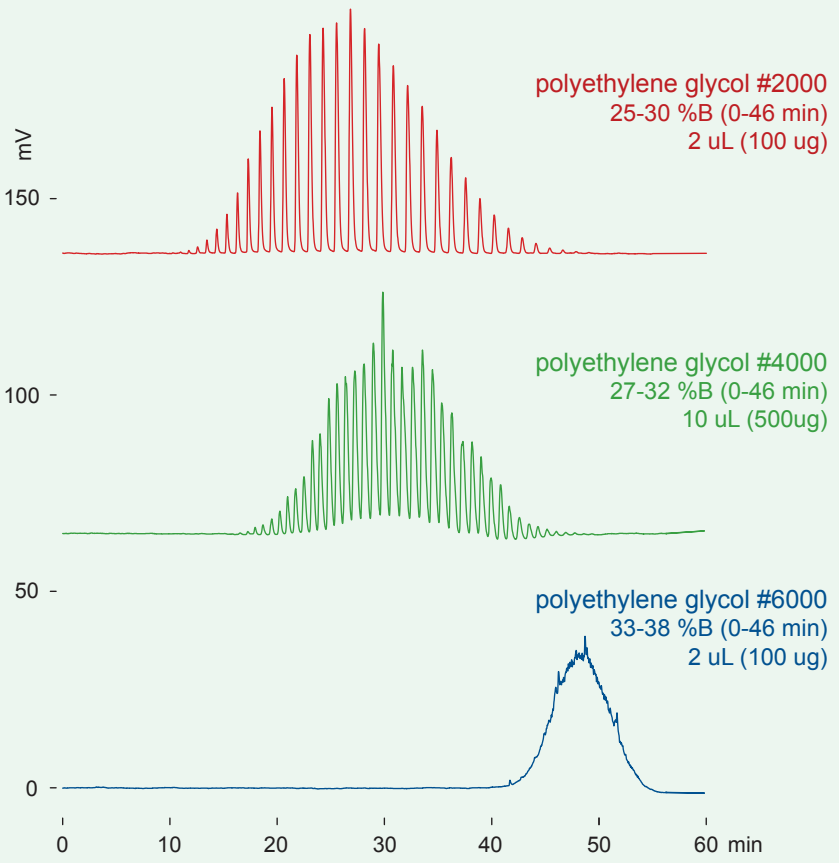


Triton X-100

Igepal CO-720

Cadenza CW-C18, 50 x 3 mm
A: water
B: Methanol
70-80 %B (0-6min)
0.35 mL/min (4MPa), 37 deg.C, 260 nm
2 uL (2% acetonitrile solution)

Polyethyline glycol (PEG)



Cadenza CW-C18 , 250 x 4.6 mm
A: water B: acetonitrile
1 mL/min (17-18 MPa), 37 deg.C
ELSD
(spray chamber 50 deg.C, drift tube 100 deg.C)

Ordering Information for Cadenza CW-C18 Columns 3µm

Pressure Limits of up to: 20MPa, 250 bar, 3000 psi							
	Internal Diameter						
Column Length	1.0 mm	1.5 mm	2.0 mm	3.0 mm	4.6 mm	6.0 mm	10.0 mm
10			CW020	CW030	CW000		
20			CW029	CW039	CW009		
30	CW011	CW071	CW021	CW031	CW001	CW061	CW0P1
50	CW012	CW072	CW022	CW032	CW002	CW062	CW0P2
75	CW013	CW073	CW023	CW033	CW003	CW063	CW0P3
100	CW014	CW074	CW024	CW034	CW004	CW064	CW0P4
150	CW015	CW075	CW025	CW035	CW005	CW065	CW0P5
250	CW016	CW076	CW026	CW036	CW006	CW066	CW0P6
500					CW007		

Guard Column System for Cadenza CW-C18							
	Internal Diameter						
	1.0 mm	1.5 mm	2.0 mm	3.0 mm	4.6 mm	6.0 mm	10.0 mm
Guard Holder	GCH01S	GCH01S	GCH01S	GCH01S	GCH01S	GCH01S	GCH02M
Guard Cartridge (Set of 3)	GCCW0C	GCCW0C	GCCW0S	GCCW0S	GCCW0S	GCCW0S	GCCW0M

All of our stationary phases can also be made in the following internal diameters:
Nano: 0.05mm, 0.075mm Capillary: 0.1mm, 0.3mm, 0.5mm Semi-Prep: 20mm, 28mm

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2. Order by fax (501) 646-3497
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