



UCT

SELECTRA® PFAS DELAY COLUMN



INNOVATION THROUGH CHEMISTRY

Crafted By UCT

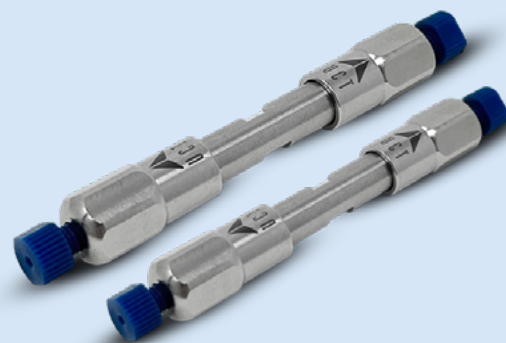
UCT combines deep expertise with precision manufacturing to deliver HPLC columns that set the standard for performance. The Selectra® line is built on ultra-pure silica and bonded with high-purity silanes produced in-house for unmatched reproducibility. Each column is individually packed and tested to ensure high theoretical plate counts and excellent peak symmetry under Statistical Process Control. Every column ships with its own Certificate of Analysis that includes a chromatogram and test results from that specific column, demonstrating proven performance in every run.

PFAS Solution

Per- and polyfluoroalkyl substances (PFAS) are widespread environmental contaminants often detected at trace levels. Background PFAS from LC systems, mobile phases, or sample handling can interfere with accurate detection. UCT's Selectra® PFAS Delay Column retains these system-derived contaminants longer than the target analytes, shifting them to later retention times. This separation prevents overlap with peaks of interest, improving accuracy and reducing false positives. The column is especially useful for low-level PFAS analysis in complex matrices or when system contamination is unavoidable. It is compatible with a wide range of reverse-phase columns, including C18 and pentafluorophenyl (PFPP) chemistries.

Product Benefits

- High purity, type B spherical silica for consistent performance
- Fully endcapped to minimize secondary interactions
- Optimized stationary phase for retention of PFAS contaminants
- Compatible with reverse-phase columns including C18 and PFPP
- Individually QC tested for reproducible results

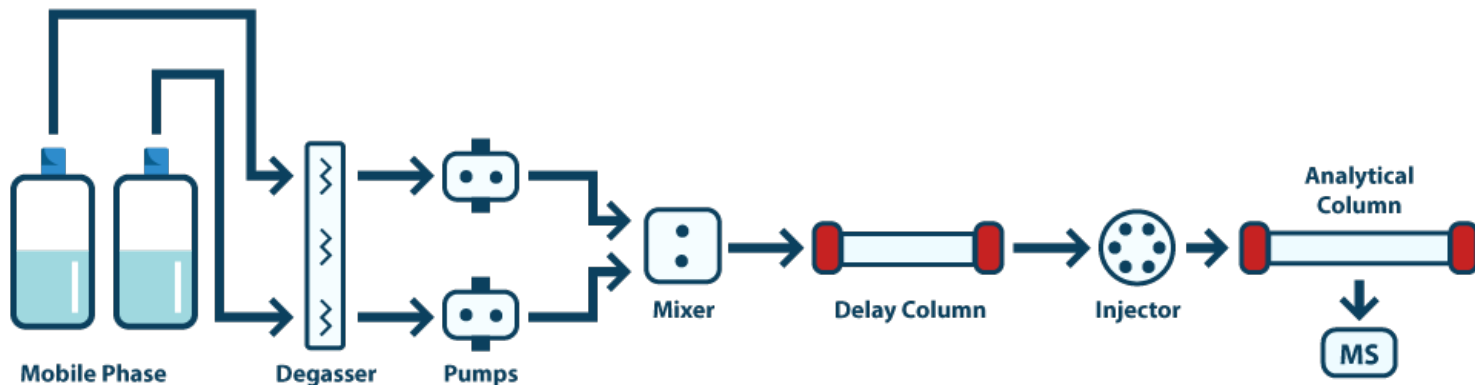


Selectra® PFAS Delay Column

Column Properties	
Stationary Phase Category	Reversed Phase
Particle Size	5 µm
Pore Size	100 Å
Surface Area	300 m ² /g
Carbon Load	19 %
USP	L1
pH Range	2-8
Max. Temperature	60°C
Max. Pressure	1030 bar/15000 psi

Part Number	
SLC-1850ID46-5UMHP	Selectra® PFAS Delay Column

System Setup



Application

Minimizing Background Interference

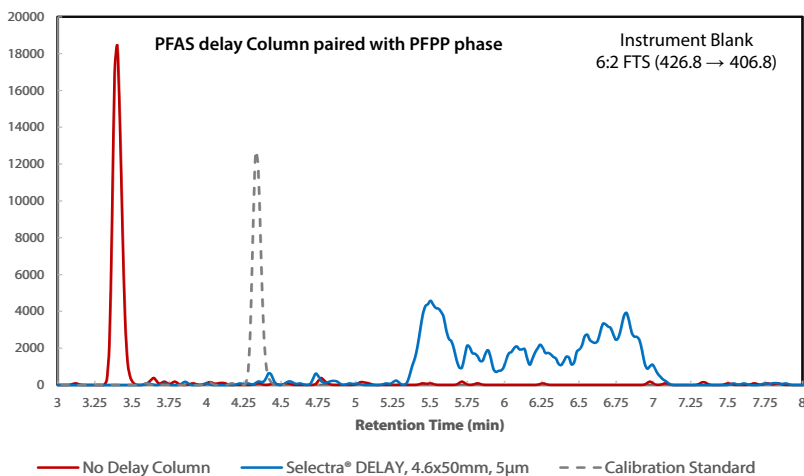
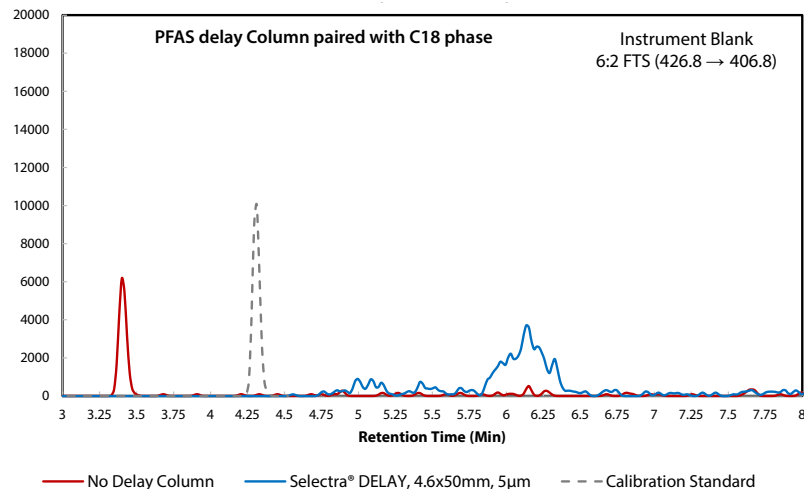
Instrument Parameters	
(For PFAS Delay Column Paired up with C18 OR PFPP Analytical Column)	
Delay Column	Selectra® PFAS Delay, 50 x 4.6 mm, 5 µm
HPLC Column	SelectraCore® C18, 100x2.1 mm, 2.7 µm
Guard Column	SelectraCore® C18, 5x2.1 mm, 2.7 µm
	OR
	SelectraCore® PFPP, 100x2.1 mm, 2.7 µm
	SelectraCore® PFPP, 5x2.1 mm, 2.7 µm
UHPLC	SCIEX ExionLC AD
Mass Spec	SCIEX QTRAP 6500+
Injection Volume	3 µL
Column Temp	40 °C
Flow Rate	0.5 mL/min
Mobile Phase	A: 10mm NH ₄ OAc, 0.1% AcOH [aq] B: 10mm NH ₄ OAc in Methanol
Gradient	B conc: 5% (0 - 0.2min) – 70% (2 min) – 85% (4 min) - 95% (9 min) – 5% (9.1min - 11min)



Results

Comparison of Selectra® PFAS Delay vs. no delay column.

The calibration standard serves as a reference for the retention times observed when the delay column is included in the system.



By positioning the **Selectra® PFAS Delay Column** upstream of the injector or analytical column, system-derived PFAS contaminants are retained and elute later, regardless of the column chemistry used downstream.

SELECTRA® PFAS DELAY COLUMN

PRICES AND TERMS

Our prices are subject to change without notice. The price in effect when we receive your order will apply. All prices are in US Dollars and are F.O.B. Lewistown, PA 17044. Terms of payment are net 30 days.

MINIMUM ORDERS

We welcome all orders, therefore, we do not have a minimum order requirement. When ordering, please include your purchase order number, complete “Ship To” and “Bill To” address, catalog number, quantity, and description of product(s). Also include your name and a phone number where you can be reached should we have any questions concerning your order.

SHIPMENTS

Normal processing is within 24 hours after receipt of an order. Unless special shipping requests have been made, our trained staff will send all orders by UPS Ground service. The appropriate shipping charges (freight & insurance costs) will be added to the invoice, unless otherwise instructed by the customer.

SPECIAL PRICING

We offer special pricing for volume purchases and standing orders. These discounts apply to bonded phase extraction column purchases only. Please call a sales representative for more information on special pricing qualifications.

RETURN POLICY

Our Quality Manager will handle all returns. Before returning merchandise, please call to obtain a return authorization number from the quality manager. We will need to know the reason for the return, date of purchase, purchase order number and invoice number in order to issue a return authorization number. Return merchandise must be received before a credit can be issued. Returns will not be accepted after 90 days. A restocking fee of 25% of the price paid, or a minimum of \$25.00 (whichever is greater) will be charged on all returns.

WARRANTY

All products manufactured by UCT are guaranteed against defects in materials and workmanship for a period of 90 days after shipment. UCT will replace any items that prove to be defective during this time period. The exclusive remedy requires the end user to first advise UCT of the defective product by phone or in writing and must include order number, the lot number and the shipping date.

To initiate this action, photographs of the product, including packaging and labeling of the containers, must be submitted to the UCT Representative for approval. With approval a return authorization can be initiated, and must be received within 30 days. Once the materials arrive at UCT a further inspection of the materials must be completed and accepted by our Quality Manager prior to further action of credits or replacement. UCT’s total liability is limited to the replacement cost of UCT products.

This warranty does not apply to damage resulting from misuse.

Placing An Order

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