

Recommended Procedure for the Preparation of PFAS Compounds According to ISO 21675

Procedure for 250 mL Samples Using 500 mg Bed Mass

Step	Amount	Reagent / Description	Flow Rate (mL/min)	Elute To	Notes
Pre-Treat	Varies	Glacial Acetic Acid		Waste	Adjust pH to 3
Condition	10 mL	0.1% (v/v) NH ₄ OH in Methanol	10	Waste	Do not let the column go dry
Condition	10 mL	Methanol	10	Waste	Do not let the column go dry
Equilibrate	10 mL	Reagent Water	10	Waste	Do not let the column go dry
Load	250 mL	Sample	5	Waste	
Wash	10 mL	Acetate Buffer	5	Waste	Rinse the sample container
Wash	10 mL	Reagent Water	5	Waste	Rinse the sample container
Dry		Using air under -10 to -15 in. Hg vacuum for 5 min.			
Elute	5 mL	Methanol	2	Collect	
Elute	5 mL	0.1% (v/v) NH ₄ OH in Methanol	2	Collect	Rinse the sample container
Evaporate		Bring to 1 mL. See concentration procedure.			
Analyze		Analyze on LC-MS/MS.			

Concentration Procedure

Parameter	Setting
Inlet Pressure Setting	6–9 bar (0.6–0.9 MPa; 87–130 psi)
Bath Temperature	60 °C
Evaporation Mode	Method (Ramp Gradient)
Manifold Setup	48 Positions
Rack Row Position	120 mm
Step 1	2.5 L/min for 15 min
Step 2	3.0 L/min for 15 min
Step 3	3.5 L/min for 45 min

For even more information on the procedure above, visit [Biotage.com](https://www.biotage.com) for the full application note.



Ordering Information

Part Number	Description	Quantity
Extraction System and Accessories		
121-2015ML	Biotage® VacMaster™ 20 Sample Processing Station (With 15 mL Rack)	1
121-2190	Biotage® VacMaster™ LVE Kit (PFAS) for 1, 3, 6 mL SPE Columns	1
121-0009-PP	Polypropylene (PFAS) Stopcocks	10
120-1111	ISOLUTE® Column Adapters (PFAS) 1, 3, 6 mL Columns	10
121-2195	Biotage® VacMaster™ Trap Kit, 10 L	1
PFAS Consumables		
614-0050-CP	EVOLUTE® PFAS 500 mg/6 mL Columns	30
614-0015-CP	EVOLUTE® PFAS 150 mg/6 mL Columns	30
614-0006-BP	EVOLUTE® PFAS 60 mg/3 mL Columns	50
19-6615	Bulk 15 mL Bulk Tubes With Leak Proof Screw Caps	100
Concentration		
415000	TurboVap® LV Automated Solvent Evaporation System	1
414964	TurboVap® LV Multi Rack (48 Positions, 10–20 mm Tubes)	1
352281SP	Pressure Regulator	1



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