



# LC<sup>Tech</sup> Solutions for your *PFAS Sample Preparation*

## Solid Samples



## Aqueous Samples



## MIX-TRACTION: The QuEChERS shaker

- Powerful vertical shaking replaces shaking by hand
- Parallel for 8 samples à 15 mL or 50 mL in conical PP tubes (e.g. Falcon)
- Can be used directly at the workplace
- Adjustment of time and shaking speed (up to 1200 rpm)
- Space and energy saving



## D-EVA: The brilliant solution for sample concentration

- Parallel evaporation of up to 23 samples (à 40 mL) or 53 samples (à 8 mL)
- Quantitative transfer into GC vial without rinsing
- Sensor-controlled concentration to individual final volume (e.g. 400 µL)
- Closed system during evaporation: prevents contamination from laboratory air
- Centrifugal force prevents aerosol formation: avoids cross-contamination
- High recovery rates even with neutral/low boiling PFAS (> 80 %)
- Use of PP tubes (e.g. Falcon format, 50 or 15 mL)
- Complete system consisting of centrifuge, chemical vacuum pump, cold trap, rotors, PFAS sensor
- Can also be operated outside a fume cupboard



APP-Note AN0045  
D-EVA, PFAS,  
US-EPA 537.1



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## EluCLEAN® - SPE Columns Overview



	Column	Sorbent	Suitable for the following standards	P/N	Pcs/Pkg
Enrichment and clean-up of PFAS from <i>various matrices including food, feed, drinking water, aqueous and solid environmental samples</i>	EluCLEAN® PFAS Universal	Special Combination Phase		20841	30
				20842	100
				20843	500
Enrichment and clean-up of PFAS from <i>highly pigmented food and feed and highly coloured environmental samples</i>	EluCLEAN® PFAS Uni-versal HP	Special Combination Phase		20851	30
				20852	100
				20853	500
Enrichment of PFAS from <i>Drinking Water</i>	EluCLEAN® PFAS SDVB	Poly(Styrene-Co-Divinylbenzene) Polymer (SDVB) 500 mg / 6 mL	US EPA 537.1, ISO 25101	20801	30
				20802	100
				20803	500
	EluCLEAN® PFAS WAX	Weak Anion Exchanger, Mixed-Mode Polymeric Sorbent (WAX) 500 mg / 6 mL	US EPA 533, prEN-17892-2022, DIN 38407-42, ISO 21675:2019, ISO 25101	20811	30
				20812	100
				20813	500
Enrichment and clean-up of PFAS from <i>aqueous and solid environmental samples</i>	EluCLEAN® PFAS WAX	Weak Anion Exchanger, Mixed-Mode Polymeric Sorbent (WAX) 200 mg / 6 mL	US EPA 533, prEN-17892-2022, DIN 38407-42, ISO 21675:2019, ISO 25101	20871	30
				20872	100
				20873	500
	EluCLEAN® PFAS WAX/ GCB	Sorbent 1: Weak Anion Exchanger, Mixed-Mode Polymeric Sorbent (WAX) Sorbent 2: Graphitized Carbon Black (GCB) 150 mg / 10 mg / 6 mL	US EPA 1633 (3rd draft), DIN 38414-14, DIN 38407-42, ISO 21675:2019	20821	30
				20822	100
				20823	500
Enrichment and clean-up of PFAS from <i>aqueous and solid environmental samples</i>	EluCLEAN® PFAS WAX/ GCB	Sorbent 1: Weak Anion Exchanger, Mixed-Mode Polymeric Sorbent (WAX) Sorbent 2: Graphitized Carbon Black (GCB) 200 mg / 50 mg / 6 mL	DoD und DoE, SM 5.1/5.3, US EPA 1633, (3rd draft), DIN 38414-14, DIN 38407-42, ISO 21675:2019	20831	30
				20832	100
				20833	500

## FREESTYLE Automation

### SPE PFAS (e.g. Dual SPE)

**BASIC system with SPE-PFAS module**  
For automated clean-up of PFAS samples via solid phase extraction



### XANA PFAS

**FREESTYLE BASIC system with SPE-PFAS module and XANA-PFAS module**  
For automated clean-up of PFAS in 0.1 – 10 L water samples



### XANA PFAS TableTop

The downscale of the FREESTYLE XANA



Max. volume per sample	100 mL	4 L	250 mL
Samples per sequence	27	24	30
Duration per SPE sequence	r.a. 13 h (Dual-SPE for food matrices)	r.a. 6.5 h (for US EPA 537.1)	r.a. 8 – 9 h (for US EPA 537.1)
Samples at the same time	1	up to 6	up to 6
Location	on lab bench	incl. table	on lab bench
PFAS compatibility	PE-tubings, PTFE-free syringe, PTFE-free valves		
Solvent compatibility	All solvents required acc. regulations are compatible		

