



## CHROMABOND® PFAS special phase for PFAS enrichment

### ★ Key features

- Special phase for the enrichment of PFAS from several matrices.
- Outstanding recovery rates especially for various types of PFAS due to several sorbent retention mechanisms.

### 🔧 Technical characteristics

- Special combination phase with weak anion exchanger, polymerbased material, pH stability 1 – 14
- Proprietary spherical particles

### ✓ Recommended application

- PFAS from water, textiles and sediments (contaminated soils).

### Solid phase extraction of PFAS from water samples according to DIRECTIVE (EU) 2020/2184

MN Appl. No. 306980

**Column type:**  
CHROMABOND® PFAS, 3 mL, 120 mg  
REF 7300009

#### Sample pretreatment:

1. The pH value of the sample shall be adjusted to the pH value of 3 with acetic acid or ammonia solution, if necessary.
2. Add the spiking solution containing the internal standard substances to the water sample in the sample bottle [adding 0.5 ng of each (5813/20 PFAS Native Solution / Mixture)] and mix thoroughly by shaking.
3. Adjust methanol content of sample solution [0 %, 5 % and 10 % (percent by volume)].

**Column conditioning:** Add 4 mL of 0.1 % NH<sub>3</sub> in methanol solution, 4 mL of methanol and 4 mL of water to the cartridge.

**Sample application:** Add 200 mL water sample with a flow rate of 5 mL/min to the cartridge. (Do not let the sorbent material in the cartridge go dry and ensure it is immersed in water at all times.)

**Bottle Rinse:** Rinse the sample bottle wall and reservoir column with 4 mL of 0.1 % NH<sub>3</sub> in methanol solution.

**Washing step:** Add 4 mL of water and 4 mL of acetate buffer solution to the cartridge and discard the eluate.

**Drying step:** Dry the cartridge for 2 min with vacuum and centrifuge the cartridge at 1500 g for about 2 min.

**Elution:** Add 4 mL of 0.1 % NH<sub>3</sub> in methanol solution with a flow rate of 3 mL/min and collect the eluate into the sample tubes. Eluent exchange: Evaporate eluate to dryness at 40 °C under a stream of nitrogen and dissolve residue in 0.5 mL methanol.

Further analysis: HPLC MS/MS MN Appl. No. 129570

Analyte (Abbreviation)	Recovery rate (%) ± RSD (%) for 0 % methanol content in sample	Recovery rate (%) ± RSD (%) for 5 % methanol content in sample	Recovery rate (%) ± RSD (%) for 10 % methanol content in sample
PFBA	112.6 ± 6.0	108.1 ± 6.5	105.3 ± 2.3
PFPeA	116.6 ± 2.1	101.9 ± 2.0	102.2 ± 2.1
PFHxA	100.7 ± 1.4	100.5 ± 2.3	102.0 ± 0.7
PFHpA	95.1 ± 0.9	100.5 ± 2.4	100.8 ± 3.1
PFOA	92.0 ± 5.5	94.0 ± 14.6	88.0 ± 6.7
PFNA	86.8 ± 1.6	89.1 ± 6.3	70.0 ± 4.4
PFDA	68.9 ± 4.0	76.9 ± 6.9	50.5 ± 2.5
PFUnDA	60.5 ± 1.6	80.6 ± 11.1	47.9 ± 2.8
PFDODA	54.1 ± 1.1	79.5 ± 9.1	43.4 ± 2.4
PFTrDA	49.3 ± 1.0	107.1 ± 5.0	107.1 ± 5.0
PFBS	112.5 ± 2.4	100.1 ± 1.6	98.9 ± 1.5
PFPes	93.7 ± 2.4	100.1 ± 1.1	98.9 ± 1.5
PFHxS	106.0 ± 1.9	100.9 ± 1.3	98.9 ± 1.3
PFHpS	99.3 ± 0.7	94.6 ± 3.9	85.0 ± 5.6
PFOS	84.1 ± 2.4	82.8 ± 5.4	60.2 ± 4.4
PFNS	67.2 ± 1.1	77.8 ± 7.9	47.1 ± 2.0
PFDS	58.7 ± 0.8	75.3 ± 6.7	43.8 ± 1.6
PFUdS	59.8 ± 1.2	72.8 ± 6.2	45.3 ± 1.3
PFDoS	56.3 ± 1.2	75.3 ± 5.9	45.3 ± 1.5
PFTrDS	55.0 ± 0.3	74.9 ± 3.9	47.2 ± 1.5

Volume	Adsorbent weight → 120 mg	300 mg	Pack of
<b>CHROMABOND® PFAS polypropylene columns</b>			
3 mL	7300009		30
6 mL		730283	30
<b>CHROMABOND® PFAS polypropylene columns BIGpack</b>			
3 mL	7300009.250		250
6 mL		730283.250	250