

HPLC Application

ID No.: 17906

Perfluoroalkylated substances (PFASs) in Foods by LC/MS/MS

Column: Luna® 3 µm PFP(2) 100 Å, LC Column 150 x 2 mm, Ea

Dimensions: 150 x 2 mm ID

Order No: 00F-4447-B0

Elution Type: Gradient

Eluent A: Water + 10 mM Ammonium Acetate

Eluent B: Methanol + 10 mM Ammonium Acetate

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	70	30
	2	29	10	90
	3	30	0	100
	4	34	0	100
	5	37	70	30

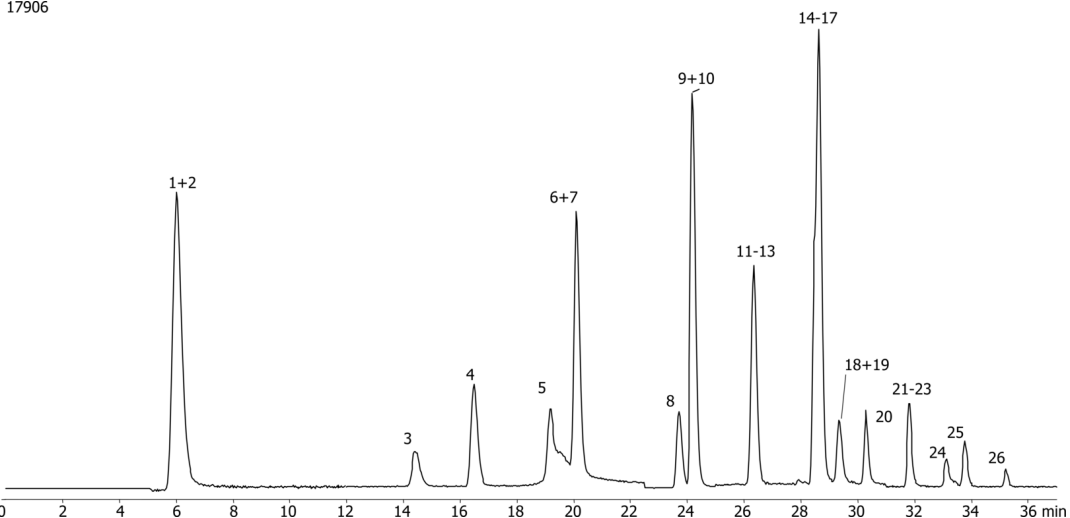
Flow Rate: 0.2 mL/min

Col. Temp.: 40 °C

Detection: Mass Spectrometer (MS) @ amu (40 °C)

Detector Info: SCIEX
Mode: ESI-negative

Analyst Note: Note: 5 time windows were set on the MS-detector so only the relevant MRM's were scanned to increase sensitivity. Three of them are visible as steps in the baseline.
The application was kindly provided by Dipl. Ing. (BA) Sabine Gabriel from the DVGW Technologiezentrum Wasser (TZW) in Karlsruhe, Germany.



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ANALYTES:

- 1 PFBA (Perfluorobutanoic acid)
- 2 MPFBA (Perfluoro-[1,2,3,4-13C4]butanoic acid)
- 3 PFPA (Perfluoropentanoic acid)
- 4 PFBS (Perfluorobutanesulfonic acid)
- 5 HPFHpA (7H-Dodecafluoroheptanoic acid)
- 6 PFHxA (Perfluorohexanoic acid)
- 7 MPFHxA (Perfluoro-[1,2-13C2]hexanoic acid)
- 8 PFHpA (Perfluoroheptanoic acid)
- 9 PFHxS (Perfluorohexanesulfonic acid)
- 10 MPFHxS (Perfluoro-[18O2]hexanesulfonic acid)
- 11 PFOA (Perfluorooctanoic acid)
- 12 MPFOA (Perfluoro-[1,2,3,4-13C4]octanoic acid)
- 13 H4PFOS (1H,1H,2H,2H-Perfluorooctanesulfonic acid)
- 14 PFOS (Perfluorooctanesulfonic acid)
- 15 MPFOS (Perfluoro-[1,2,3,4-13C4]octanesulfonic acid)
- 16 PFNA (Perfluorononanoic acid)
- 17 MPFNA (Perfluoro-[1,2,3,4,5-13C5]nonanoic acid)
- 18 H2PFDA (2H,2H-Perfluorodecanoic acid)
- 19 PF-3,7-DMOA (Perfluoro-3,7-dimethyloctanoic acid)
- 20 PFDA (Perfluorodecanoic acid)
- 21 PFUnA (Perfluoroundecanoic acid)
- 22 H4PFUnA (2H,2H,3H,3H-Perfluoroundecanoic acid)
- 23 PFDS (Perfluorodecanesulfonic acid)
- 24 PFDoA (Perfluorododecanoic acid)
- 25 PFOSA (Perfluorooctanesulfonamid)
- 26 PFTA (Perfluorotetradecanoic acid)

