

GenX replacement PFOA compound by LC-MS/MS

Column: Gemini® 3 µm C18 110 Å, LC Column 50 x 2 mm, Ea

Dimensions: 50 x 2 mm ID

Order No: 00B-4439-B0

Elution Type: Gradient

Eluent A: 20mM Ammonium Acetate in Water

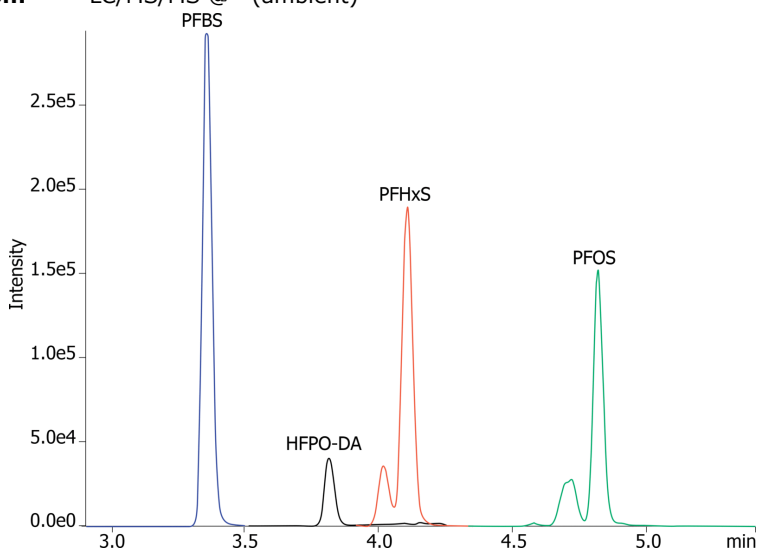
Eluent B: Methanol

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	95	5
	2	0.1	45	55
	3	4.5	1	99
	4	8	1	99
	5	8.5	95	5

Flow Rate: 0.6 mL/min

Col. Temp.: 40 °C

Detection: LC/MS/MS @ (ambient)



ANALYTES:

- 1 PFBS
Retention Time: 3.4 min
- 2 PFBS
Retention Time: 3.4 min
- 3 HFPO-DA
Retention Time: 3.7 min
- 4 HFPO-DA
Retention Time: 3.7 min
- 5 13C3-HFPO-DA
Retention Time: 3.7 min
- 6 PFHxS
Retention Time: 4.1 min
- 7 PFHxS
Retention Time: 4.1 min
- 8 PFOS
Retention Time: 4.7 min
- 9 PFOS
Retention Time: 4.7 min

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Products used in this application:



Sample Preparation Details

for HPLC Application ID No.: 25436

GenX replacement PFOA compound by LC-MS/MS

PRODUCT DESCRIPTION:

Strata GCB, 500mg/6mL, 30/Pk

Order No.: 8B-S528-HCH

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

Elute:

Final Prep and Analysis:

All standards including HFPO-DA and its stable isotope labelled surrogate ¹³C₃-HFPO-DA were purchased from Wellington Laboratories (Guelph, Ontario). 200 mL water samples were extracted

Inject: 10 µL on HPLC LC/MS/MS @ (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 PFBS	0				
2 PFBS	0				
3 HFPO-DA	0				
4 HFPO-DA	0				
5 ¹³ C ₃ -HFPO-DA	0				
6 PFHxS	0				
7 PFHxS	0				
8 PFOS	0				
9 PFOS	0				

Note: This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals. Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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