

## 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

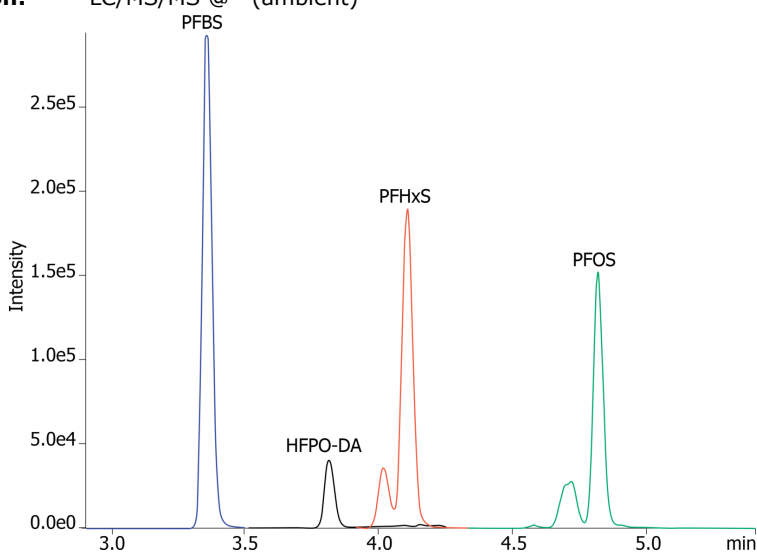
**Flow Rate:** 0.6 mL/min

**Col. Temp.:** 40 °C

**Detection:** LC/MS/MS @ (ambient)



Products used in this application:



### 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



# 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:

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#### Load:

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#### Wash:

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#### Dry:

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#### Elute:

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### Final Prep and Analysis:

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All standards including HFPO-DA and its stable isotope labelled surrogate <sup>13</sup>C<sub>3</sub>-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 <sup>13</sup> C <sub>3</sub> -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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