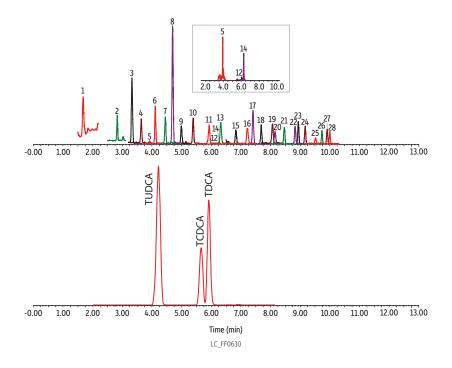
PFAS in Milk Fortified at 0.01 µg/kg on Force C18 by LC-MS/MS



Peaks	Precursor Ion 1	Product Ion	Column Dimensions:	Force C18 (ca		
Perfluorobutanoic acid (PFBA)	212.94	168.89	Particle Size:	3 μm		
Perfluoropentanoic acid (PFPeA)	262.93	218.89	Pore Size:	100 Å		
3. Perfluorobutane sulfonic acid (PFBS)	298.96	79.97	Guard Column:		8 guard cartridge 5	mm, 2.1 m
4. Perfluorohexanoic acid (PFHxA)	313.09	119.03	Temp.:	50 °C		
5. Hexafluoropropylene oxide dimer acid (HFPO-DA)	284.86	168.88	Standard/Sample		ration standard (cat	
6. Perfluoropentane sulfonic acid (PFPeS)	349.10	79.98	D'I		rds obtained extern	ally.
7. Perfluoroheptanoic acid (PFHpA)	363.15	169.06	Diluent:	Methanol:wa		-11
8. Ammonium 4,8-dioxa-3H-perfluorononanoate (ADONA)	376.90	84.97	Conc.: Inj. Vol.:		ed at 0.01 µg/kg in	milk
Perfluorohexane sulfonic acid (PFHxS)	398.80	79.82	Mobile Phase	5 μL		
10. Perfluorooctanoic acid (PFOA)	413.09	168.90	A:	Water 5 mM	ammonium acetate	
11. Perfluoroheptane sulfonic acid (PFHpS)	448.78	79.82	B:		etonitrile (50:50)	
12. 1-Propanaminium, N-(carboxymethyl)-N,N-dimethyl-3-			2.	Time (min)	Flow (mL/min)	%A
[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulfonyl]amino]-,				0.00	0.6	95
hydroxide (Capstone B)	568.81	548.85		3.00	0.6	60
13. Perfluorononanoic acid (PFNA)	463.09	219.01		9.00	0.6	30
14. 1-Propanaminium, N,N-dimethyl-N-oxide-3-				9.50	0.6	5
[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulfonyl]amino]-,				10.50	0.6	0
hydroxide (Capstone A)	526.90	180.96		11.00	0.6	0
15. Perfluorooctane sulfonic acid (PFOS)	498.78	79.89		11.01 13.00	0.6 0.6	95 95
16. Perfluorodecanoic acid (PFDA)	513.16	219.06		13.00	0.0	95
17. 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate (9Cl-PF3ONS)	530.77	350.85	Max Pressure:	360 bar		
18. Perfluorononane sulfonic acid (PFNS)	548.65	79.89	Detector	Waters Xevo	TO Absolute	
19. Perfluoroundecanoic acid (PFUnA)	562.78	268.82	Ion Mode:	ESI-	. 4	
20. Perfluorooctane sulfonic acid (FOSA)	497.75	77.87	Mode:	MRM		
21. Perfluorodecane sulfonic acid (PFDS)	598.78	98.82	Instrument	Waters ACQU	IITY Premier	
22. Perfluorododecanoic acid (PFDoA)	612.52	318.90	Sample Preparation	Ten grams of	milk were weighed	into a 50 r
23. 11-Chloroeicosafluoro-3-oxanonane-1-sulfonate (11Cl-PF3OUdS)	630.71	450.81			at 0.01 µg/kg. Isoto	
24. Perfluoroundecane sulfonic acid (PFUnDS)	648.65	79.88			nto the sample and	
25. Perfluorotridecanoic acid (PFTrDA)	662.78	168.87			; and a Q-sep QuECh	
26. Perfluorododecane sulfonic acid (PFDoS)	698.71	79.89			o the sample and vo	
27. Perfluorotetradecanoic acid (PFTeDA)	712.78	168.87			o a shaker table and	

748.59

79.88

Notes

mm ID (cat.# 963450252) 34)

Time (min)	Flow (mL/min)	%A	%В
0.00	0.6	95	5
3.00	0.6	60	40
9.00	0.6	30	70
9.50	0.6	5	95
10.50	0.6	0	100
11.00	0.6	0	100
11.01	0.6	95	5
13.00	0.6	95	5

0 mL centrifuge tube (cat.# 25846) labeled internal standards (50 µL) vortexed. Acetonitrile (10 mL); formic traction salt packet (cat.# 25847) d for ~30 seconds. The samples were n for 10 minutes. The samples were then centrifuged for 5 minutes at 4200 rpm. The supernatant was aliquoted into a O-sep QuEChERS dSPE 15 mL centrifuge tube containing 900 mg MgSO4; 300 mg PSA; and 150 mg GCB (cat.# 26126) and then vortexed for ~30 seconds followed by centrifuging for 5 minutes at 4200 rpm. The supernatant was aliquoted (6 mL) into a clean 15 mL centrifuge tube and dried down at 35 °C for 90 minutes using a Biotage TurboVap. The samples were reconstituted in methanol:water 60:40 (400 µL); vortexed for ~30 seconds; and centrifuged for 5 minutes at 4200 rpm. The supernatant was aliquoted into a polypropylene vial (cat.# 23243) and capped with a polyethylene screw cap (cat.# 23244) and 5 µL

was injected for analysis.
A PFAS delay column (cat.# 27854) was installed before the injector.

28. Perfluorotridecane sulfonic acid (PFTrDS)