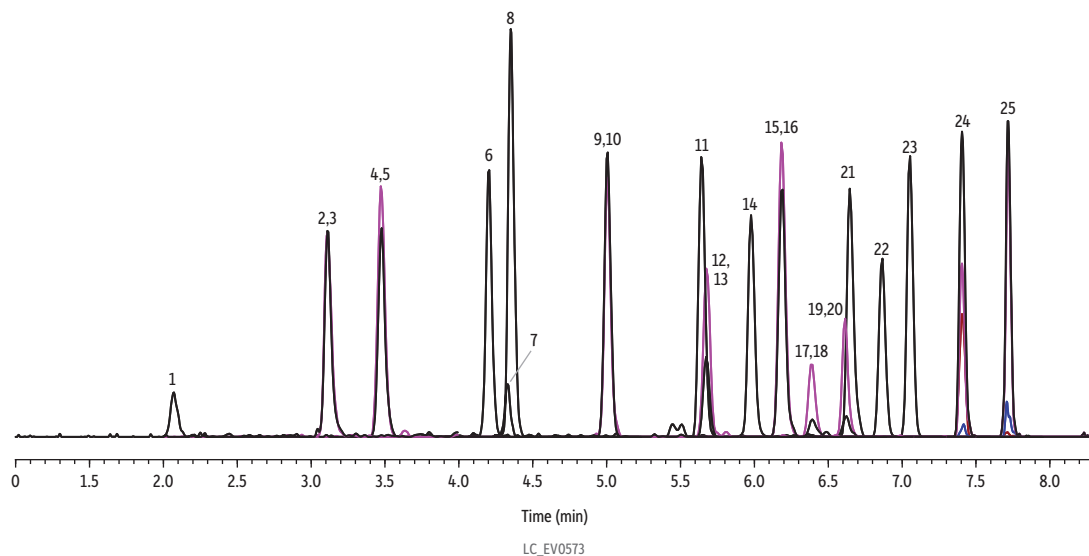


Laboratory Fortified Blank (LFB) at Midrange (40 ppt) for EPA 537.1 on Raptor C18

- Excellent resolution of fluorochemicals in short total cycle times.
- Workflow meets EPA Method 537.1 requirements.
- Unique, robust Raptor C18 column design increases instrument uptime.



Peaks	tr (min)	Conc. (ng/L)	Precursor Ion	Product Ion	Column	Diluent:	Standard/Sample	Inj. Vol.:	Mobile Phase	Time (min)	Flow (mL/min)	%A	%B
1. Perfluorobutanesulfonic acid (PFBS)	2.08	40	299.0	80.0	Raptor C18 (cat.# 9304A52)	96:4 Methanol:water	5-20 ng/mL in the final solution after sample preparation (equivalent to 20-80 ppt in laboratory reagent water sample prior to extraction)	2 µL	Water, 5 mM ammonium acetate	0.00	0.4	70	30
2. Perfluoro- <i>n</i> -[1,2- ¹³ C ₂]hexanoic acid (¹³ C ₂ -PFHxA)	3.11	20	315.1	270.1	Dimensions: 50 mm x 2.1 mm ID				Methanol	8.00	0.4	10	90
3. Perfluorohexanoic acid (PFHxA)	3.11	40	313.2	269.0	Particle Size: 2.7 µm					8.01	0.4	70	30
4. Tetrafluoro-2-heptafluoropropoxy- ¹³ C ₃ -propanoic acid (¹³ C ₃ -HFPO-DA)	3.47	20	332.1	287.3	Pore Size: 90 Å					10.0	0.4	70	30
5. Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.47	40	328.9	284.9	Temp.: 40 °C								
6. Perfluoroheptanoic acid (PFHpA)	4.19	40	363.2	319.2									
7. Perfluorohexanesulfonic acid (PFHxS)	4.33	40	399.2	79.9									
8. 4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.34	40	376.9	251.0									
9. Perfluoro-[1,2- ¹³ C ₂]octanoic acid (¹³ C ₂ -PFOA)	5.00	20	414.9	370.0									
10. Perfluorooctanoic acid (PFOA)	5.00	40	413.1	369.1									
11. Perfluorononanoic acid (PFNA)	5.64	40	463.1	419.0									
12. Perfluorooctanesulfonic acid (PFOS)	5.66	40	499.2	80.1									
13. Perfluoro-1-[1,2,3,4- ¹³ C ₄]octanesulfonic acid (¹³ C ₄ -PFOS)	5.67	60	503.1	80.2									
14. 9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	5.97	40	531.0	350.9									
15. Perfluoro- <i>n</i> -[1,2- ¹³ C ₂]decanoic acid (¹³ C ₂ -PFDA)	6.18	20	515.2	470.1									
16. Perfluorodecanoic acid (PFDA)	6.18	40	512.9	468.9									
17. N-methyl perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	6.38	40	570.2	419.0									
18. N-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid (d3-N-MeFOSAA)	6.38	80	573.1	419.1									
19. N-deuterioethylperfluoro-1-octanesulfonamidoacetic acid (d5-N-EtFOSAA)	6.61	80	589.2	419.1									
20. N-ethyl perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	6.62	40	583.8	418.9									
21. Perfluoroundecanoic acid (PFUnA)	6.64	40	563.2	519.1									
22. 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.86	40	630.8	451.1									
23. Perfluorododecanoic acid (PFDoA)	7.05	40	613.1	569.1									
24. Perfluorotridecanoic acid (PFTriDA)	7.40	40	663.0	619.2									
25. Perfluorotetradecanoic acid (PFTA)	7.71	40	713.1	669.0									

Detector
MS/MS
Ion Mode: ESI-
Mode: MRM
Instrument: HPLC

Sample Preparation
The sample was prepared using Resprep S-DVB SPE cartridges (cat.# 28937) mounted on a Resprep vacuum manifold (cat.# 29298-VM) following the procedure in U.S. EPA Method 537.1. While internal standard concentrations varied, all target analytes were fortified at 40 ppt.
A PFAS delay column (cat.# 27854) was installed before the injector.

Notes
Want even better performance when analyzing metal-sensitive compounds? Check out Inert LC columns at www.restek.com/inert.