



Detection of PFAS contaminants after filtration with Millex® PES and nylon devices and nylon from a different manufacturer using LC-MS/MS according to modified EPA Draft 1633.

Compound	Abbreviation(s)	Standard	RL (ppb)	MDL (ppb)	Millipore® SLGP 0.2 µm PES	Millipore® SLGN 0.2 µm nylon	Pall® 0.2 µm nylon	Millipore® SLGNM 0.2 µm nylon-HPF	
					AVE of 2 lots ^b	AVE of 2 lots ^b	AVE of 2 lots ^b	Lot 1 ^{c,d}	Lot 2 ^c
Perfluoroalkyl Carboxylic Acids									
Perfluoro-n-butanoic acid	PFBA	¹³ C ₄ -PFBAa	0.8	0.4	ND	ND	ND	ND	ND
Perfluoro-n-pentanoic acid	PFPeA	¹³ C ₅ -PFPeAa	0.4	0.1	ND	ND	ND	ND	ND
Perfluoro-n-hexanoic acid	PFHxA	¹³ C ₅ -PFHxAa	0.2	0.05	ND	ND	ND	0.0835 ^e	ND
Perfluoro-n-heptanoic acid	PFHpA	¹³ C ₄ -PFHpAa	0.2	0.05	ND	ND	ND	0.0688 ^e	ND
Perfluoro-n-octanoic acid	PFOA	¹³ C ₈ -PFOAa	0.2	0.05	ND	ND	ND	0.0992 ^e	ND
Perfluoro-n-nonanoic acid	PFNA	¹³ C ₉ -PFNA	0.2	0.061	ND	ND	ND	0.0827 ^e	ND
Perfluoro-n-decanoic acid	PFDA	¹³ C ₆ -PFDA	0.2	0.05	ND	ND	ND	0.115 ^e	ND
Perfluoro-n-undecanoic acid	PFUnDA	¹³ C ₇ -PFUnA	0.2	0.06	ND	ND	ND	0.107 ^e	ND
Perfluoro-n-dodecanoic acid	PFDoDA	¹³ C ₂ -PFDoA	0.2	0.06	ND	ND	ND	0.113 ^e	ND
Perfluoro-n-tridecanoic acid	PFTTrDA	¹³ C ₂ -PFTeDA / ¹³ C ₂ -PFDoA	0.2	0.084	ND	ND	ND	0.116 ^e	ND
Perfluoro-n-tetradecanoic acid	PFTeDA	¹³ C ₂ -PFTeDA	0.2	0.05	ND	ND	ND	0.149 ^e	ND
Perfluoroalkyl Sulfonic Acids									
Perfluoro-n-butanesulfonic acid	PFBS	¹³ C ₃ -PFBS	0.2	0.1	ND	ND	ND	ND	ND
Perfluoro-n-pentanesulfonic acid	PFPeS	¹³ C ₃ -PFHxS	0.2	0.11	ND	ND	ND	ND	ND

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					AVE of 2 lots ^b	AVE of 2 lots ^b	AVE of 2 lots ^b	Lot 1 ^{c,d}	Lot 2 ^c
Perfluoro-n-hexanesulfonic acid	PFHxS	¹³ C ₃ -PFHxS	0.2	0.1	ND	ND	ND	ND	ND
Perfluoro-n-heptanesulfonic acid	PFHpS	¹³ C ₈ -PFOS	0.2	0.1	ND	ND	ND	ND	ND
Perfluoro-n-octanesulfonic acid	PFOS	¹³ C ₈ -PFOS	0.2	0.1	ND	ND	ND	ND	ND
Perfluoro-n-nonanesulfonic acid	PFNS	¹³ C ₈ -PFOS	0.2	0.1	ND	ND	ND	ND	ND
Perfluoro-n-decanesulfonic acid	PFDS	¹³ C ₈ -PFOS	0.2	0.1	ND	ND	ND	ND	ND
Perfluoro-n-dodecanesulfonic acid	PFDoS	¹³ C ₈ -PFOS	0.2	0.11	ND	ND	ND	ND	ND
Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid	4:2 FTS / 4:2 FTSA	¹³ C ₂ -4:2FTS	0.8	0.4	ND	ND	ND	ND	ND
6:2 Fluorotelomer sulfonic acid	6:2 FTS / 6:2 FTSA	¹³ C ₂ -6:2FTS	0.8	0.4	ND	ND	ND	ND	ND
8:2 Fluorotelomer sulfonic acid	8:2 FTS / 8:2 FTSA	¹³ C ₂ -8:2FTS	0.8	0.41	ND	ND	ND	ND	ND
Fluorotelomer Carboxylic Acids									
3-Perfluoropropyl propanoic acid	3:3 FTCA	¹³ C ₅ -PFPeA	1	0.5	ND	ND	ND	ND	ND
2H,2H,3H,3H-Perfluorooctanoic acid	5:3 FTCA	¹³ C ₅ -PFHxA	5	1	ND	ND	ND	ND	ND
n-3 Perfluoroheptyl propanoic acid	FHpPA / 7:3 FTCA	¹³ C ₅ -PFHxA	5	1	ND	ND	ND	ND	ND
Perfluorooctane Sulfonamides									
Perfluorooctane sulfonamide	PFOSA / FOSA	¹³ C ₈ -PFOSA	0.2	0.1	ND	ND	ND	ND	ND
N-methyl-perfluorooctane sulfonamide	N-MeFOSA	D ₃ -NMeFOSA	0.2	0.1	ND	ND	ND	ND	ND
N-ethyl-perfluorooctane sulfonamide	N-EtFOSA	D ₅ -NEtFOSA	0.2	0.1	ND	ND	ND	ND	ND
Perfluorooctane Sulfonamidoacetic Acids									
N-methyl Perfluorooctane sulfonamidoacetic acid	N-MeFOSAA	D ₃ -NMeFOSAA	0.2	0.1	ND	ND	ND	ND	ND
N-ethyl Perfluorooctane sulfonamidoacetic acid	N-EtFOSAA	D ₅ -NEtFOSAA	0.2	0.13	ND	ND	ND	ND	ND
Perfluorooctane Sulfonamido Ethanol									
N-methyl perfluorooctane sulfonamidoethanol	N-MeFOSE	D ₇ -NMeFOSE	2	1	ND	ND	ND	ND	ND
N-ethyl perfluorooctane sulfonamidoethanol	N-EtFOSE	D ₉ -NEtFOSE	2	1	ND	ND	ND	ND	ND
Per and Polyfluoroether Carboxylic Acids									
Hexafluoropropylene oxide dimer acid	GenX / HFPO-DA	¹³ C ₃ -HFPO-DA	0.8	0.2	ND	ND	ND	ND	ND
4,8-Dioxa-3H-perfluorononanoic acid	ADONA / DONA	¹³ C ₃ -HFPO-DA	0.8	0.2	ND	ND	ND	ND	ND
Perfluoro-3-methoxypropanoic acid	PFMPA	¹³ C ₅ -PFPeA	0.4	0.1	ND	ND	ND	ND	ND
Perfluoro-4-methoxybutanoic acid	PFMBA	¹³ C ₅ -PFPeA	0.4	0.11	ND	ND	ND	ND	ND
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	¹³ C ₅ -PFHxA	0.4	0.12	ND	ND	ND	ND	ND

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Per and Polyfluoroether Sulfonic Acids									
Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	9Cl-PF3ONS	¹³ C ₃ -HFPO-DA	0.8	0.2	ND	ND	ND	ND	ND
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	¹³ C ₃ -HFPO-DA	0.8	0.2	ND	ND	ND	ND	ND
Perfluoro (2-ethoxyethane) sulfonic acid	PFEESA	¹³ C ₅ -PFHxA	0.4	0.1	ND	ND	ND	ND	ND

^aExtracted internal standard (EIS), five total

^bThree replicate devices per lot tested, no PFAS compound detected in any lot above RL or MDL

^cThree replicate devices tested

^dFourth device tested per lot after hits reported in first replicate device

^eResult appeared in the third replicate device only, all others were ND for all PFAS compounds, including a fourth device

Abbreviations: RL = reporting limit; MDL = minimum detection limit; ND = not detected

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