



Detection of PFAS contaminants after filtration with three different lots of hydrophilic 0.2 µm polypropylene disc filters in Swinnex® devices using modified EPA Draft 1633.

Compound	Abbreviation(s)	Standard	RL (ppb)	MDL (ppb)	Millipore® PPHG Hydrophilic PP, 0.2 µm		
					Lot 1 ^b	Lot 2 ^b	Lot 3 ^b
Perfluoroalkyl Carboxylic Acids							
Perfluoro-n-butanoic acid	PFBA	¹³ C ₄ -PFBAa	0.8	0.4	ND	ND	ND
Perfluoro-n-pentanoic acid	PFPeA	¹³ C ₅ -PFPeAa	0.4	0.1	ND	ND	ND
Perfluoro-n-hexanoic acid	PFHxA	¹³ C ₅ -PFHxAa	0.2	0.05	ND	ND	ND
Perfluoro-n-heptanoic acid	PFHpA	¹³ C ₄ -PFHpAa	0.2	0.05	ND	ND	ND
Perfluoro-n-octanoic acid	PFOA	¹³ C ₈ -PFOAa	0.2	0.05	ND	ND	ND
Perfluoro-n-nonanoic acid	PFNA	¹³ C ₉ -PFNA	0.2	0.061	ND	ND	ND
Perfluoro-n-decanoic acid	PFDA	¹³ C ₆ -PFDA	0.2	0.05	ND	ND	ND
Perfluoro-n-undecanoic acid	PFUnDA	¹³ C ₇ -PFUnA	0.2	0.06	ND	ND	ND
Perfluoro-n-dodecanoic acid	PFDoDA	¹³ C ₂ -PFDoA	0.2	0.06	ND	ND	ND
Perfluoro-n-tridecanoic acid	PFTTrDA	¹³ C ₂ -PFTTeDA / ¹³ C ₂ -PFDoA	0.2	0.084	ND	ND	ND
Perfluoro-n-tetradecanoic acid	PFTeDA	¹³ C ₂ -PFTeDA	0.2	0.05	ND	ND	ND
Perfluoroalkyl Sulfonic Acids							
Perfluoro-n-butanedisulfonic acid	PFBS	¹³ C ³ -PFBS	0.2	0.1	ND	ND	ND
Perfluoro-n-pentadisulfonic acid	PFPeS	¹³ C ₃ -PFHxS	0.2	0.11	ND	ND	ND
Perfluoro-n-hexadisulfonic acid	PFHxS	¹³ C ₃ -PFHxS	0.2	0.1	ND	ND	ND
Perfluoro-n-heptadisulfonic acid	PFHpS	¹³ C ₈ -PFOS	0.2	0.1	ND	ND	ND
Perfluoro-n-octadisulfonic acid	PFOS	¹³ C ₈ -PFOS	0.2	0.1	ND	ND	ND
Perfluoro-n-nonadisulfonic acid	PFNS	¹³ C ⁸ -PFOS	0.2	0.1	ND	ND	ND
Perfluoro-n-decadisulfonic acid	PFDS	¹³ C ₈ -PFOS	0.2	0.1	ND	ND	ND
Perfluoro-n-dodecadisulfonic acid	PFDoS	¹³ C ₈ -PFOS	0.2	0.11	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
6:2 Fluorotelomer sulfonic acid	6:2 FTS / 6:2 FTSA	¹³ C ₂ -6:2FTS	0.8	0.4	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

Compound	Abbreviation(s)	Standard	RL (ppb)	MDL (ppb)	Millipore® PPHG Hydrophilic PP, 0.2 µm		
					Lot 1 ^b	Lot 2 ^b	Lot 3 ^b
3-Perfluoropropyl propanoic acid	3:3 FTCA	¹³ C ₅ -PFPeA	1	0.5	ND	ND	ND
2H,2H,3H,3H-Perfluorooctanoic acid	5:3 FTCA	¹³ C ₅ -PFHxA	5	1	ND	ND	ND
n-3-Perfluoroheptyl propanoic acid	FHpPA / 7:3 FTCA	¹³ C ₅ -PFHxA	5	1	ND	ND	ND
Perfluorooctane Sulfonamides							
Perfluorooctanesulfonamide	PFOSA / FOSA	¹³ C ₈ -PFOSA	0.2	0.1	ND	ND	ND
N-methyl-perfluorooctanesulfonamide	N-MeFOSA	D ₃ -NMeFOSA	0.2	0.1	ND	ND	ND
N-ethyl-perfluorooctanesulfonamide	N-EtFOSA	D ₅ -NEtFOSA	0.2	0.1	ND	ND	ND
Perfluorooctane Sulfonamidoacetic Acids							
N-methyl Perfluorooctane sulfonamidoacetic acid	N-MeFOSAA	D ₃ -NMeFOSAA	0.2	0.1	ND	ND	ND
N-ethyl Perfluorooctane sulfonamidoacetic acid	N-EtFOSAA	D ₅ -NEtFOSAA	0.2	0.13	ND	ND	ND
Perfluorooctane Sulfonamido Ethanols							
N-methyl perfluorooctane sulfonamidoethanol	N-MeFOSE	D ₇ -NMeFOSE	2	1	ND	ND	ND
N-ethyl perfluorooctane sulfonamidoethanol	N-EtFOSE	D ₉ -NEtFOSE	2	1	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
4,8-Dioxa-3H-perfluorononanoic acid	ADONA / DONA	¹³ C ₃ -HFPO-DA	0.8	0.2	ND	ND	ND
Perfluoro-3-methoxypropanoic acid	PFMBA	¹³ C ₅ -PFPeA	0.4	0.1	ND	ND	ND
Perfluoro-4-methoxybutanoic acid	PFMBA	¹³ C ₅ -PFPeA	0.4	0.11	ND	ND	ND
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	¹³ C ₅ -PFHxA	0.4	0.12	ND	ND	ND
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
11-Chloroicosadecafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	¹³ C ₃ -HFPO-DA	0.8	0.2	ND	ND	ND
Perfluoro(2-ethoxyethane) sulfonic acid	PFEESA	¹³ C ₅ -PFHxA	0.4	0.1	ND	ND	ND

^aExtracted internal standard (EIS), five total

^bThree replicate devices per lot tested; thus, date is the mean ± standard deviation of n=3 devices. No PFAS compound detected in any device above RL or MDL

Abbreviations: RL = reporting limit; MDL = minimum detection limit; PP = polypropylene; philic = hydrophilic; phobic = hydrophobic; ND = not detected

To place an order or receive technical assistance

In the U.S. and Canada, call toll-free 1-800-645-5476

For other countries across Europe and the world, please visit: SigmaAldrich.com/offices

For Technical Service, please visit: SigmaAldrich.com/techservice

SigmaAldrich.com

We have built a unique collection of life science brands with unrivalled experience in supporting your scientific advancements.

Millipore® Sigma-Aldrich® Supelco® Milli-Q® SAFC® BioReliance®

MilliporeSigma
400 Summit Drive
Burlington, MA 01803

