

Test Report

No.: [REDACTED]

Date: Jun 13, 2023

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Client Name: [REDACTED]

Client Address: [REDACTED]

Sample Name: [REDACTED]

The above sample(s) and information were provided by the client.

SGS Job No.: 10032658
 Sample Receiving Date: Jun 05, 2023
 Testing Period: Jun 05, 2023 ~ Jun 13, 2023
 Test Requested: Select test(s) as requested by the client.
 Test Method(s): Please refer to next page(s).
 Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	See Results

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jessie-JX Li
 Approved Signatory



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0040669-0001.C001	White paper

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
PFOS, its salts and related compounds				
Perfluorooctane sulfonates (PFOS) ^{Note (1)}	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
PFOA, its salts				
Perfluorooctanoic acid (PFOA) ^{Note (2)}	335-67-1	mg/kg	0.010	ND
PFOA-related compounds				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) ^{Note (3)}	39108-34-4	mg/kg	0.010	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.1	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) ^{Note (3)}	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^{Note (3)}	1996-88-9	mg/kg	0.1	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.1	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) ^{Note (3), Note (11)}	27854-31-5	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2FTOH) ^{Note (3)}	678-39-7	mg/kg	0.1	ND
Sum of PFOA-related compounds	-	mg/kg	-	ND
C9-C14 PFCA, their salts				
Perfluorononane Acid (PFNA) ^{Note (4)}	375-95-1	mg/kg	0.010	ND
Perfluorodecane Acid (PFDA) ^{Note (4)}	335-76-2	mg/kg	0.010	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
Perfluoroundecanoic Acid (PFUnDA) ^{Note (22)}	2058-94-8	mg/kg	0.010	ND
Perfluorododecanoic Acid (PFDoDA) ^{Note (4)}	307-55-1	mg/kg	0.010	ND
Perfluorotridecanoic Acid (PFTTrDA)	72629-94-8	mg/kg	0.010	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	mg/kg	0.010	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.010	ND
Sum of C9-C14 PFCA, their salts	-	mg/kg	-	ND
C9-C14 PFCA-related substances				
Perfluorodecane Sulfonate (PFDS) ^{Note (10)}	335-77-3	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.1	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	mg/kg	0.1	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnDA/ 8:3 FTCA) ^{Note (12)}	34598-33-9	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	mg/kg	0.1	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	mg/kg	0.010	ND
1,1,2,2-Tetrahydroperfluorododecyl iodide (10:2 FTI)	2043-54-1	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) ^{Note (3)}	39108-34-4	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) ^{Note (3)}	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^{Note (3)}	1996-88-9	mg/kg	0.1	ND
2H,2H-Perfluorodecane Acid (H ₂ PFDA/8:2 FTCA) ^{Note (3), Note (11)}	27854-31-5	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) ^{Note (3)}	678-39-7	mg/kg	0.1	ND
Sum of C9-C14-related substances	-	mg/kg	-	ND
PFHxS, its salts				
Perfluorohexane Sulfonate (PFHxS) ^{Note (7)}	355-46-4	mg/kg	0.010	ND
PFHxS-related compounds				
N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	mg/kg	0.010	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	mg/kg	0.010	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
Other PFAS				
Perfluorobutane Acid (PFBA) ^{Note (13)}	375-22-4	mg/kg	0.010	ND
Perfluorobutane Sulfonate (PFBS) ^{Note (5)}	375-73-5	mg/kg	0.010	ND
Perfluoropentane Acid (PFPeA) ^{Note (17)}	2706-90-3	mg/kg	0.010	ND
Perfluorohexane Acid (PFHxA) ^{Note (6)}	307-24-4	mg/kg	0.010	ND
Perfluoroheptane Acid (PFHpA) ^{Note (14)}	375-85-9	mg/kg	0.010	ND
Perfluoroheptanesulfonic Acid (PFHpS) ^{Note (8)}	375-92-8	mg/kg	0.010	ND
7H-Dodecanefluoroheptane Acid (7HPFHpA)	1546-95-8	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS)	27619-97-2	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.1	ND
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) ^{Note (9)}	13252-13-6	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	mg/kg	0.010	ND
Perfluoropentane sulfonic acid (PFPeS) ^{Note (18)}	2706-91-4	mg/kg	0.010	ND
Perfluoro nonane sulfonic acid (PFNS) ^{Note (19)}	68259-12-1	mg/kg	0.010	ND
Perfluoroundecane sulfonic acid (PFUnDS) ^{Note (16)}	749786-16-1	mg/kg	0.010	ND
Perfluorododecanesulfonic acid (PFDoDS) ^{Note (20)}	79780-39-5	mg/kg	0.010	ND
Perfluorotridecane sulfonic acid (PFTrDS) ^{Note (21)}	791563-89-8	mg/kg	0.010	ND
2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	mg/kg	0.010	ND
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	mg/kg	0.010	ND
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	mg/kg	0.010	ND
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	mg/kg	0.010	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2diPAP) ^{Note (15)}	678-41-1	mg/kg	0.010	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	mg/kg	0.1	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	mg/kg	0.010	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	mg/kg	0.010	ND
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	mg/kg	0.010	ND
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	mg/kg	0.010	ND
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	mg/kg	0.010	ND
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	mg/kg	0.010	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	mg/kg	0.010	ND
3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	mg/kg	0.010	ND
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	mg/kg	0.010	ND

Notes:

- (1) PFOS refer to its salts/derivative including
 - PFOS-K CAS No.: 2795-39-3
 - PFOS-Li CAS No.: 29457-72-5
 - PFOS-Na CAS No.: 4021-47-0
 - PFOS-NH₄ CAS No.: 29081-56-9
 - PFOS-NH(C₂H₅O)₂ CAS No.: 70225-14-8
 - PFOS-N(C₂H₅)₄ CAS No.: 56773-42-3
 - PFOS-N(C₁₀H₂₁)₂(CH₃)₂ CAS No.: 251099-16-8
 - POSF CAS No.: 307-35-7
 - POSF-Mg CAS No.: 91036-71-4
- (2) PFOA refer to its salts/derivative including
 - PFOA-Na CAS No.: 335-95-5
 - PFOA-K CAS No.: 2395-00-8
 - PFOA-Ag CAS No.: 335-93-3
 - PFOA-F CAS No.: 335-66-0
 - APFO CAS No.: 3825-26-1
- (3) PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances.
- (4) PFNA refer to its salts including
 - PFNA-Na CAS No.: 21049-39-8
 - PFNA-NH₄ CAS No.: 4149-60-4
 - PFNA-K CAS No.: 21049-38-7
 - PFNA-Li CAS No.: 60871-92-3
- PFDA refer to its salts including
 - PFDA-Na CAS No. 3830-45-3
 - PFDA-NH₄ CAS No: 3108-42-7
- PFDoDA refer to its salts including
 - PFDoDA-NH₄ CAS No: 3793-74-6



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- (5) PFBS refers to its salts/derivative including
- | | |
|---|---------------------------------|
| PFBS-K | CAS No.: 29420-49-3 |
| PFBS-H ₂ O | CAS No.: 59933-66-3 |
| PFBS-Li | CAS No.: 131651-65-5 |
| PFBS-S(C ₆ H ₅) ₃ | CAS No.: 144317-44-2 |
| PFBS-S(CH ₃) ₂ C ₆ H ₅ | CAS No.: 220133-51-7 |
| PFBS-P(C ₄ H ₉) ₄ | CAS No.: 220689-12-3 |
| PFBS-N(C ₂ H ₅) ₄ | CAS No.: 25628-08-4 |
| PFBS-NC ₃ H ₈ O | CAS No.: 34454-97-2 |
| PFBS-F | CAS No.: 375-72-4 |
| PFBS-NC ₄ H ₉ O | CAS No.: 503155-89-3 |
| PFBS-Mg | CAS No.: 507453-86-3 |
| PFBS-NH ₄ | CAS No.: 68259-10-9 |
| PFBS-SC ₁₈ H ₂₃ O | CAS No.: -- / EC No.: 468-770-4 |
| PFBS-Cl | CAS No.: 2991-84-6 |
| PFBS-Na | CAS No.: 60453-92-1 |
- (6) PFHxA refers to its salt including
- | | |
|----------|---------------------|
| APFHx | CAS No.: 21615-47-4 |
| PFHxA-Na | CAS No.: 2923-26-4 |
| PFHxA-K | CAS No.: 3109-94-2 |
| PFHxA-F | CAS No.: 355-38-4 |
- (7) PFHxS refers to its salts including
- | | |
|--|-----------------------|
| PFHxS-Na | CAS No.: 82382-12-5 |
| PFHxS-K | CAS No.: 3871-99-6 |
| PFHxS-Li | CAS No.: 55120-77-9 |
| PFHxS-NH ₄ | CAS No.: 68259-08-5 |
| PFHxS-P(C ₆ H ₅) ₃ C ₇ H ₇ | CAS No.: 1000597-52-3 |
| PFHxS-N(C ₄ H ₉) ₄ | CAS No.: 108427-54-9 |
| PFHxS-N(C ₂ H ₅) ₄ | CAS No.: 108427-55-0 |
| PFHxS-NC ₄ H ₉ | CAS No.: 1187817-57-7 |
| PFHxS-(NC ₁₀ H ₁₄) ₃ C ₅ H ₄ | CAS No.: 1310480-24-0 |
| PFHxS-(NC ₈ H ₁₀) ₂ C ₁₃ H ₁₂ | CAS No.: 1310480-27-3 |
| PFHxS-(NC ₈ H ₁₀) ₂ C ₁₇ H ₁₂ | CAS No.: 1310480-28-4 |
| PFHxS-C ₄₂ H ₇₀ O ₃₅ | CAS No.: 1329995-45-0 |
| PFHxS-C ₄₈ H ₈₀ O ₄₀ | CAS No.: 1329995-69-8 |
| PFHxS-S(C ₆ H ₅) ₃ | CAS No.: 144116-10-9 |
| PFHxS-C ₄₄ H ₃₇ N ₂ O ₂ | CAS No.: 1462414-59-0 |
| PFHxS-I(C ₆ H ₅) ₂ | CAS No.: 153443-35-7 |
| PFHxS-N(CH ₃) ₄ | CAS No.: 189274-31-5 |
| PFHxS-NH ₂ (CH ₃) ₃ | CAS No.: 202189-84-2 |
| PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂ | CAS No.: 213740-81-9 |
| PFHxS-Ga | CAS No.: 341035-71-0 |
| PFHxS-S(C ₇ H ₇) ₂ C ₆ H ₅ | CAS No.: 341548-85-4 |
| PFHxS-Sc | CAS No.: 350836-93-0 |
| PFHxS-Nd | CAS No.: 41184-65-0 |
| PFHxS-Y | CAS No.: 41242-12-0 |
| PFHxS-S ₃ (C ₆ H ₅) ₄ (C ₆ H ₄) ₂ | CAS No.: 421555-73-9 |
| PFHxS-I(C ₆ H ₄) ₂ (C ₅ H ₁₁) ₂ | CAS No.: 421555-74-0 |
| PFHxS-F | CAS No.: 423-50-7 |
| PFHxS-S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃ | CAS No.: 425670-70-8 |
| PFHxS-Zn | CAS No.: 70136-72-0 |
| PFHxS-NH(C ₂ H ₅ O) ₂ | CAS No.: 70225-16-0 |



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PFHxS-N(C ₂ H ₅) ₃	CAS No.: 72033-41-1
PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂	CAS No.: 866621-50-3
PFHxS-S(C ₆ H ₅) ₂ C ₇ H ₇	CAS No.: 910606-39-2
PFHxS-S(C ₆ H ₅) ₂ C ₁₀ H ₉ O ₂	CAS No.: 911027-68-4
PFHxS-Cs	CAS No.: 92011-17-1
PFHxS-SC ₂₈ H ₃₁ O ₄	CAS No.: 928049-42-7
(8) PFHpS refers to its salts including	
PFHpS-Na	CAS No.: 21934-50-9
PFHpS-K	CAS No.: 60270-55-5
(9) HFPO-DA refers to its salts including	
HFPO-DA-NH ₄	CAS No.: 62037-80-3
HFPO-DA-K	CAS No.: 67118-55-2
HFPO-DA-F	CAS No.: 2062-98-8
(10) PFDS refer to its salts including	
PFDS-Na	CAS No.: 2806-15-7
PFDS-K	CAS No.: 2806-16-8
PFDS-NH ₄	CAS No.: 67906-42-7
(11) H ₂ PFDA / 8:2 FTCA refer to its salt/derivative including	
8:2 FTCA-P(C ₄ H ₉) ₄	CAS No.: 882489-14-7
(12) H ₄ PFUnDA / 8:3 FTCA refer to its salts including	
H ₄ PFUnDA-K	CAS No.: 83310-58-1
(13) PFBA refers to its salts including	
PFBA-NH ₄	CAS No.: 10495-86-0
PFBA-Na	CAS No.: 2218-54-4
PFBA-K	CAS No.: 2966-54-3
PFBA-Ag	CAS No.: 3794-64-7
(14) PFHpA refers to its salts including	
PFHpA-Na	CAS No.: 20109-59-5
PFHpA-K	CAS No.: 21049-36-5
PFHpA-NH ₄	CAS No.: 6130-43-4
(15) 8:2diPAP refers to its salts including	
8:2diPAP-Na	CAS No.: 114519-85-6
(16) PFUnDS refers to its salts including	
PFUnDS-Na	CAS No.: 441296-91-9 (anion)
(17) PFPeA refers to its salts including	
PFPeA-Na	CAS No.: 2706-89-0
PFPeA-K	CAS No.: 336-23-2
PFPeA-NH ₄	CAS No.: 68259-11-0
(18) PFPeS refers to its salts including	
PFPeS-Na	CAS No.: 630402-22-1
PFPeS-K	CAS No.: 3872-25-1
(19) PFNS refers to its salts including	
PFNS-Na	CAS No.: 98789-57-2
PFNS-NH ₄	CAS No.: 17202-41-4
(20) PFDoDS refers to its salts including	
PFDoDS-Na	CAS No.: 1260224-54-1
(21) PFTTrDS refers to its salts including	
PFTTrDS-Na	CAS No.: 174675-49-1
(22) PFUnDA refers to its salts including	
PFUnDA-Na	CAS No.: 60871-96-7
PFUnDA-NH ₄	CAS No.: 4234-23-5



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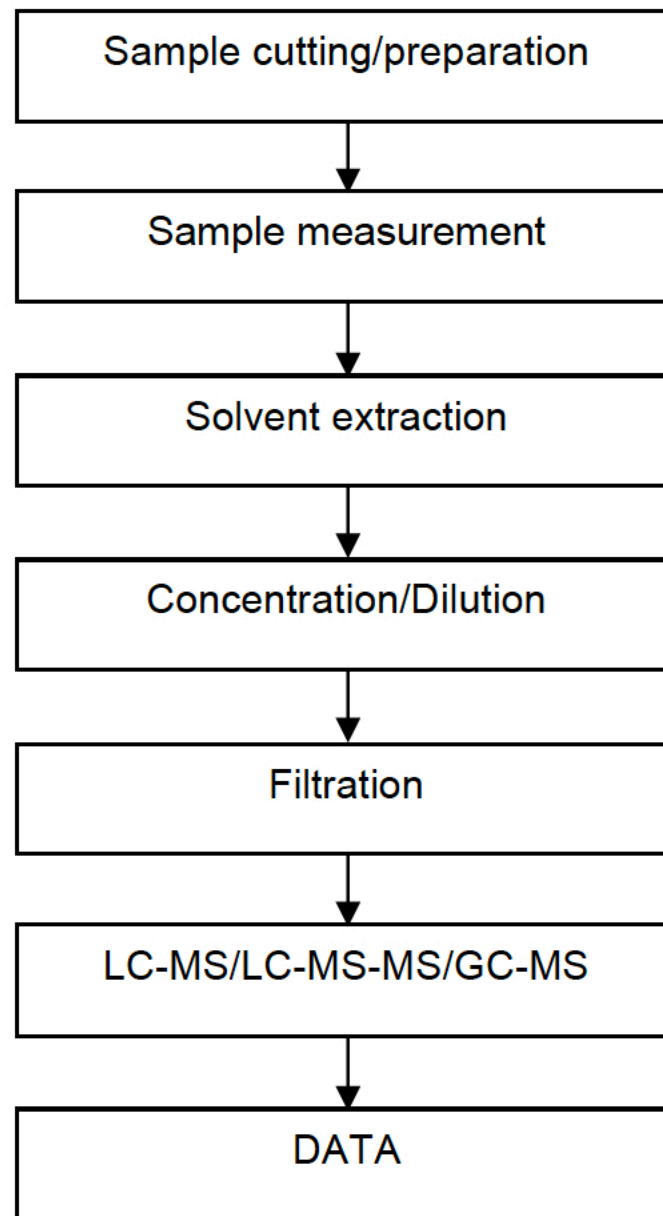
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PFASs/ PFOS/PFOA Testing Flow Chart



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