

Per- and polyfluoroalkyl substances (PFAS) analysis

PFAS have been used in industry and consumer products since the 1940s and have been widely detected in drinking water, wastewater, ground and surface water, soil, and other complex matrices. Their chain of strong fluorine-carbon bonds makes these chemicals persistent and bio-accumulative over long-term exposure.

More than 4,000 PFAS are known to currently have been used, and this list continues to expand. In response, regulatory agencies worldwide are implementing more stringent requirements for monitoring and identifying PFAS.

You can achieve uncompromising accuracy for rigorous regulatory methods with Agilent PFAS analysis solutions. Our InfinityLab PFC-free HPLC conversion kit* includes everything you need to ensure your 1290 Infinity II instruments and 1290 Infinity II high-speed pump are free of PFAS contaminants:

- Tubing
- Inline filter
- Bottle head assembly
- Delay column with InfinityLab Quick Connect LC fitting

Agilent offers complete end-to-end workflows for extraction, quantification and reporting of PFAS in the environment. This includes sample preparation products, HPLC columns, PFC-free sample containment and other HPLC supplies, Ultra-high performance liquid chromatography (UHPLC) coupled to triple quadrupole mass spectrometry, and e-methods.

Set up your lab faster and future-proof your lab with the Agilent ready-to-run eMethod for PFAS analysis

Use the single analytical method to separate and detect 108 native and isotopically labelled PFAS compounds in drinking and surface water, listed in standard and regulatory methods. Agilent has done the hard work for you. eMethods are designed to accelerate your startup time by condensing the vast amounts of technical information and optimized analytical methods into a ready-to-run, downloadable, digital information package. Agilent's eMethod supplies you with information on the instrument configuration, consumables, sample preparation protocols, analytical methods for sample introduction, chromatographic separation, detection, and data analysis.

* Although the kit is customer-installable, Agilent offers supplemental installation by a service professional. To add this service to your order, ask for part number H5949A.



Easy selection and ordering information

This guide provides recommendations for Agilent products by regulatory method, so you can find what you're looking for quickly. To add items to your **Favorite Products*** list at the Agilent online store, simply click the MyList links in each header below. Then, enter the quantities for the products you need. Your list will remain under **Favorite Products** for your use with future orders.

EPA 537 or similar: Determination of PFAS in drinking water by SPE and LC/MS/MS (EPA 537.1 or similar) [View MyList](#)

Product Category	Description	Part Number
Sample preparation	Bond Elut LMS cartridge, 500 mg, 6 mL, 30/pk	12255021
	Bond Elut Adapter cap for 1, 3 and 6 mL Bond Elut cartridges (15/pk)	12131001
	Bond Elut Empty SPE cartridge 60 mL (100/pk)	12131012
	Vac Elut 20 Manifold long valve stopcock, 20/pk	12234520
	Centrifuge tubes and caps, 15 mL, 50/pk	5610-2039
	Vac Elut SPS 24 Manifold with collection rack for 10 x 75 mm test tubes	12234003
	Collection rack and funnel set for 12 or 15 mL conical tubes, for Vac Elut SPS 24 Manifold	12234027
Guard column	ZORBAX RRHD Eclipse Plus C18 2.1 x 5 mm, 1.8 µm guard	821725-901
Separation column	ZORBAX RRHD Eclipse Plus C18, 2.1x100mm, 1.8 µm	959758-902
PFC-free LC kit w/ delay column	InfinityLab PFC-free HPLC Conversion Kit	5004-0006
Delay column	InfinityLab PFC Delay Column, 4.6 x 30 mm, 1200 bar (replacement)	5062-8100
Other LC supplies	InfinityLab Quick Connect assembly, 0.12 x 105 mm, for column inlet connection on UHPLC	5067-5957
	InfinityLab Quick Connect assembly, 0.17 x 105 mm, for column inlet connection on HPLC	5067-6166
	InfinityLab Quick Turn fitting, for column outlet	5067-5966
	Quick Turn capillary 0.12 x 280 mm, for connection from column to detector	5500-1191
	Kit of Stay Safe waste cap GL45 with 4 ports and waste can 6 L	5043-1221
	Charcoal filter with time strip for waste container	5043-1193
	Stainless steel solvent inlet filter, 10 µm pore size	01018-60025
Solvent filtration assembly**	InfinityLab solvent filtration assembly, includes glass funnel, 250 mL, membrane holder glass base, glass flask, 1 L, and aluminum clamp	5191-6776
	Regenerated Cellulose Filter membrane 47 mm, 0.20 µm 100/pk	5191-4340
Sample containment	2 mL polypropylene snap style vials (100/pk)	5182-0567
	Clear snap style caps with polypropylene septa (100/pk)	5182-0542
	2 mL polypropylene screw style vials (100/pk)	5191-8150
	9 mm screw style cap with polypropylene/silicone screw septa (100/pk)	5191-8151
Solvents	InfinityLab ultrapure LC/MS water	5191-4498
	InfinityLab Ultrapure LCMS Acetonitrile	5191-4496
	LC-MS grade MeOH	5190-6896
Standard	PFC Calibration Standard (For use with system performance evaluation, troubleshooting and ongoing system evaluation)	ITA-70

* First time using "My Favorites"? You will be asked to enter your email address for account verification. If you have an existing Agilent account, you will be able to log in. If you don't have a registered Agilent account, you will need to register for one. This feature is valid only in regions that are e-commerce enabled. All items can also be ordered through your regular sales and distributor channels.

** If using solvents other than those listed in this table, use the InfinityLab Solvent Filtration assembly to filter prior to analysis.

EPA 533 or similar: Determination of PFAS in drinking water by SPE and LC/MS/MS (short-chain PFAS) [View MyList](#)

Product Category	Description	Part Number
Sample preparation	SampliQ WAX polymer 6 mL cartridges, 150 mg, 30 µm (30/pk)*	5982-3667
	Bond Elut Adapter cap for 1, 3 and 6 mL Bond Elut cartridges (15/pk)	12131001
	Bond Elut Empty SPE cartridge 60 mL (100/pk)	12131012
	Vac Elut 20 Manifold long valve stopcock, 20/pk	12234520
	Centrifuge tubes and caps, 15 mL, 50/pk	5610-2039
	Vac Elut SPS 24 Manifold with collection rack for 10 x 75 mm test tubes	12234003
	Collection rack and funnel set for 12 or 15 mL conical tubes, for Vac Elut SPS 24 Manifold	12234027
Guard column	ZORBAX RRHD Eclipse Plus C18 2.1 x 5 mm, 1.8 µm guard	821725-901
Separation column	ZORBAX RRHD Eclipse Plus C18, 2.1x50mm, 1.8 µm	959757-902
PFC-free LC kit w/ delay column	InfinityLab PFC-free HPLC Conversion Kit	5004-0006
Delay column	InfinityLab PFC Delay Column, 4.6 x 30 mm, 1200 bar (replacement)	5062-8100
Other LC supplies	InfinityLab Quick Connect assembly, 0.12 x 105 mm, for column inlet connection on UHPLC	5067-5957
	InfinityLab Quick Connect assembly, 0.17 x 105 mm, for column inlet connection on HPLC	5067-6166
	InfinityLab Quick Turn fitting, for column outlet	5067-5966
	Quick Turn capillary 0.12 x 280 mm, for connection from column to detector	5500-1191
	Kit of Stay Safe waste cap GL45 with 4 ports and waste can 6 L	5043-1221
	Charcoal filter with time strip for waste container	5043-1193
	Stainless steel solvent inlet filter, 10 µm pore size	01018-60025
Solvent filtration assembly**	InfinityLab solvent filtration assembly, includes glass funnel, 250 mL, membrane holder glass base, glass flask, 1 L, and aluminum clamp	5191-6776
	Regenerated Cellulose Filter membrane 47 mm, 0.20 µm 100/pk	5191-4340
Sample containment	2 mL polypropylene snap style vials (100/pk)	5182-0567
	Clear snap style caps with polypropylene septa (100/pk)	5182-0542
	2 mL polypropylene screw style vials (100/pk)	5191-8150
	9 mm screw style cap with polypropylene/silicone screw septa (100/pk)	5191-8151
Solvents	InfinityLab Ultrapure LCMS Water	5191-4498
	InfinityLab Ultrapure LCMS Acetonitrile	5191-4496
	LC-MS grade MeOH	5190-6896
Standard	PFC Calibration Standard (For use with system performance evaluation, troubleshooting and ongoing system evaluation)	ITA-70

* For optimal recoveries, cartridges should be rinsed with basic methanol before conditioning with buffer.

** If using solvents other than those listed in this table, use the InfinityLab Solvent Filtration assembly to filter prior to analysis.

EPA 8327: Determination of PFAS in groundwater, surface water, and wastewater samples using direct injection and LC/MS/MS [View MyList](#)

Product Category	Description	Part Number
Sample preparation	Captiva Premium Syringe Filter, polypropylene housing, regenerated cellulose (RC) membrane, 25 mm diameter, 0.2 µm pore size, 100/pk	5190-5110
	Captiva Disposable Syringe, 10 mL, 100/pk	9301-6474
	Centrifuge tubes and caps, 15 mL, 50/pk	5610-2039
Guard column	ZORBAX RRHD Stable Bond C18, 2.1 mm, 1.8 µm, UHPLC guard (3/pk)	821725-902
Separation column	ZORBAX RRHD Stable Bond C18, 2.1 x 100 mm and 1.8 µm particle size	858700-902
PFC-free LC kit w/ delay column	InfinityLab PFC-free HPLC Conversion Kit	5004-0006
Delay column	InfinityLab PFC Delay Column, 4.6 x 30 mm, 1200 bar (replacement)	5062-8100
Other LC supplies	InfinityLab Quick Connect assembly, 0.12 x 105 mm, for column inlet connection on UHPLC	5067-5957
	InfinityLab Quick Connect assembly, 0.17 x 105 mm, for column inlet connection on HPLC	5067-6166
	InfinityLab Quick Turn fitting, for column outlet	5067-5966
	Quick Turn capillary 0.12 x 280 mm, for connection from column to detector	5500-1191
	Kit of Stay Safe waste cap GL45 with 4 ports and waste can 6 L	5043-1221
	Charcoal filter with time strip for waste container	5043-1193
	Stainless steel solvent inlet filter, 10 µm pore size	01018-60025
Solvent filtration assembly*	InfinityLab solvent filtration assembly, includes glass funnel, 250 mL, membrane holder glass base, glass flask, 1 L, and aluminum clamp	5191-6776
	Regenerated Cellulose Filter membrane 47 mm, 0.20 µm 100/pk	5191-4340
Sample containment	2 mL polypropylene snap style vials (100/pk)	5182-0567
	Clear snap style caps with polypropylene septa (100/pk)	5182-0542
	2 mL polypropylene screw style vials (100/pk)	5191-8150
	9 mm screw style cap with polypropylene/silicone screw septa (100/pk)	5191-8151
Solvents	InfinityLab Ultrapure LCMS Water	5191-4498
	InfinityLab Ultrapure LCMS Acetonitrile	5191-4496
	LC-MS grade MeOH	5190-6896
Standard	PFC Calibration Standard (For use with system performance evaluation, troubleshooting and ongoing system evaluation)	ITA-70

* If using solvents other than those listed in this table, use the InfinityLab Solvent Filtration assembly to filter prior to analysis.

ASTM D7979: Determination of PFAS in water sludge, influent, effluent, and wastewater using LC/MS/MS [View MyList](#)

Product Category	Description	Part Number
Sample preparation	Captiva Premium Syringe Filter, polypropylene housing, regenerated cellulose (RC) membrane, 25 mm diameter, 0.2 µm pore size, 100/pk	5190-5110
	Captiva Disposable Syringe, 10 mL, 100/pk	9301-6474
	Centrifuge tubes and caps, 15 mL, 50/pk	5610-2039
Guard column A	ZORBAX RRHD StableBond Aq, 2.1 mm, 1.8 µm, UHPLC guard (3/pk)	821725-936
Separation column A	ZORBAX RRHD Stablebond-Aq, 2.1x100 mm, 1.8 µm	859700-914
Guard column B	ZORBAX RRHD Eclipse Plus C18, 2.1 mm, 1.8 µm, UHPLC guard (3/pk)	821725-901
Separation column B	ZORBAX RRHD Eclipse Plus C18, 2.1x100 mm, 1.8 µm	959758-902
PFC-free LC kit w/ delay column	InfinityLab PFC-free HPLC Conversion Kit	5004-0006
Delay column	InfinityLab PFC Delay Column, 4.6 x 30 mm, 1200 bar (replacement)	5062-8100
Other LC supplies	InfinityLab Quick Connect assembly, 0.12 x 105 mm, for column inlet connection on UHPLC	5067-5957
	InfinityLab Quick Connect assembly, 0.17 x 105 mm, for column inlet connection on HPLC	5067-6166
	InfinityLab Quick Turn fitting, for column outlet	5067-5966
	Quick Turn capillary 0.12 x 280 mm, for connection from column to detector	5500-1191
	Kit of Stay Safe waste cap GL45 with 4 ports and waste can 6 L	5043-1221
	Charcoal filter with time strip for waste container	5043-1193
	Stainless steel solvent inlet filter, 10 µm pore size	01018-60025
Solvent filtration assembly*	InfinityLab solvent filtration assembly: includes glass funnel (250 mL), membrane holder glass base, glass flask (1 L), and aluminum clamp	5191-6776
	Regenerated cellulose filter membrane (47 mm, 0.20 µm, 100/pk)	5191-4340
Sample containment	2 mL polypropylene snap style vials (100/pk)	5182-0567
	Clear snap style caps with polypropylene septa (100/pk)	5182-0542
	2 mL polypropylene screw style vials (100/pk)	5191-8150
	9 mm screw style cap with polypropylene/silicone screw septa (100/pk)	5191-8151
Solvents	InfinityLab Ultrapure LCMS Water	5191-4498
	InfinityLab Ultrapure LCMS Acetonitrile	5191-4496
	LC-MS grade MeOH	5190-6896
Standard	PFC Calibration Standard (For use with system performance evaluation, troubleshooting and ongoing system evaluation)	ITA-70

* If using solvents other than those listed in this table, use the InfinityLab Solvent Filtration assembly to filter prior to analysis.

ISO 21675:2019: Determination of PFAS in nonfiltrated waters (drinking, natural, and wastewater) containing < 2 g/L solid particulate material, using LC/MS/MS [View MyList](#)

Product Category	Description	Part Number
Sample preparation	SampliQ WAX polymer 6 mL cartridges, 150 mg, 30 µm (30/pk)*	5982-3667
	Bond Elut Adapter cap for 1, 3 and 6 mL Bond Elut cartridges (15/pk)	12131001
	Bond Elut Empty SPE cartridge 60 mL (100/pk)	12131012
	Vac Elut 20 Manifold long valve stopcock, 20/pk	12234520
	Centrifuge tubes and caps, 15 mL, 50/pk	5610-2039
	Collection rack and funnel set for 12 or 15 mL conical tubes, for Vac Elut SPS 24 Manifold	12234027
	Vac Elut SPS 24 Manifold with collection rack for 10 x 75 mm test tubes	12234003
Guard column	Polaris C18-A, MetaGuard, 3 µm, 2.0 mm, 3/pk	A2001MG2
Separation column	Polaris C18 A, 2.0x50 mm, 3 µm	A2001050X020
PFC-free LC kit w/ delay column	InfinityLab PFC-free HPLC Conversion Kit	5004-0006
Delay column	InfinityLab PFC Delay Column, 4.6 x 30 mm, 1200 bar (replacement)	5062-8100
Other LC supplies	InfinityLab Quick Connect assembly, 0.12 x 105 mm, for column inlet connection on UHPLC	5067-5957
	InfinityLab Quick Connect assembly, 0.17 x 105 mm, for column inlet connection on HPLC	5067-6166
	InfinityLab Quick Turn fitting, for column outlet	5067-5966
	Quick Turn capillary 0.12 x 280 mm, for connection from column to detector	5500-1191
	Kit of Stay Safe waste cap GL45 with 4 ports and waste can 6 L	5043-1221
	Charcoal filter with time strip for waste container	5043-1193
	Stainless steel solvent inlet filter, 10 µm pore size	01018-60025
Solvent filtration assembly**	InfinityLab solvent filtration assembly, includes glass funnel, 250 mL, membrane holder glass base, glass flask, 1 L, and aluminum clamp	5191-6776
	Regenerated Cellulose Filter membrane 47 mm, 0.20 µm 100/pk	5191-4340
Sample containment	2 mL polypropylene snap style vials (100/pk)	5182-0567
	Clear snap style caps with polypropylene septa (100/pk)	5182-0542
	2 mL polypropylene screw style vials (100/pk)	5191-8150
	9 mm screw style cap with polypropylene/silicone screw septa (100/pk)	5191-8151
Solvents	InfinityLab Ultrapure LCMS Water	5191-4498
	InfinityLab Ultrapure LCMS Acetonitrile	5191-4496
	LC-MS grade MeOH	5190-6896
Standard	PFC Calibration Standard (For use with system performance evaluation, troubleshooting and ongoing system evaluation)	ITA-70

* For optimal recoveries, cartridges should be rinsed with basic methanol before conditioning with buffer.

** If using solvents other than those listed in this table, use the InfinityLab Solvent Filtration assembly to filter prior to analysis.

Future-proof your lab to address the growing list of PFAS compounds

Use a single analytical method to separate and detect 108 native and isotopically labeled PFAS compounds in drinking and surface water listed in standard methods and regulatory lists EPA Method 537.1, EPA Method 533, SW-846 Method 8327, SW-846 Draft Method 8327, ASTM D7979-19, ASTM 7968-17a, ISO 21675:2019, Europe (EU) WfD & DWD, Japan Drinking Water Quality Standards, and Germany DIN methods. The full method, described in application note 5994-3600EN: Targeted Quantitation of Legacy and Emerging Per and Polyfluoroalkyl Substances (PFAS) in Water using the Agilent 6470 Triple Quadrupole LC/MS/MS system, is available as a downloadable eMethod M5660AA (Use part number G5285AA when ordering through your local sales and distribution channel).

[View MyList](#) of column and supplies that were used in the eMethod for the analysis of more than 100 native and isotopically labeled PFAS compounds. Learn more about the [PFAS MRM database](#).

Product Category	Description	Part Number
Sample preparation	SampliQ WAX polymer 6 mL cartridges, 150 mg, 30 µm, 30/pk*	5982-3667
	Bond Elut Adapter cap for 1, 3 and 6 mL Bond Elut cartridges, 15/pk	12131001
	Vac Elut 20 Manifold long valve stopcock, 20/pk	12234520
	Bond Elut Empty SPE cartridge 60 mL, 100/pk	12131012
	Centrifuge tubes and caps, 15 mL, 50/pk	5610-2039
	Vac Elut SPS 24 Complete System (with 12 or 15 mL conical collection rack), 1/pk	12234040
Separation column	ZORBAX RRHD Eclipse Plus C18, 2.1 x 50 mm, 1.8 µm	959757-902
Guard column	ZORBAX RRHD Eclipse Plus C18 2.1 x 5 mm, 1.8 µm guard	821725-901
PFC-free LC kit w/ delay column	InfinityLab PFC-free HPLC Conversion Kit	5004-0006
Delay column	InfinityLab PFC Delay Column, 4.6 x 30 mm, 1200 bar (replacement)	5062-8100
Other LC supplies	Tubing, PEEK, solid color red, 1/16 in. OD x 0.005 in. ID, 10 feet length, 1/pk	AL35720
	Stainless steel solvent inlet filter, 10 µm pore size (Solvent inlet filter for seal wash)	01018-60025
	InfinityLab Quick Connect assembly, 0.12 x 105 mm, for column inlet connection on UHPLC (Connects column to heat exchanger)	5067-5957
	InfinityLab Quick Turn LC fitting (fitting for p/n 5067-5957)	5067-5966
	InfinityLab solvent bottle, clear, 1000 mL, with cap	9301-6528
	InfinityLab solvent bottle, clear, 125 mL, with cap	9301-6527
	InfinityLab solvent bottle, clear, 500 mL, with cap	9301-6523
	Kit of Stay Safe waste cap GL45 with 4 ports and waste can 6 L	5043-1221
Sample containment	Charcoal filter with time strip for waste container	5043-1193
	2 mL polypropylene screw style vials (100/pk)	5191-8150
	Vial, screw top, polypropylene, certified, 250 µL, 100/pk. Vial size: 12 x 32 mm (12 mm cap)	5190-2242
Solvent filtration assembly**	9 mm screw style cap with polypropylene/silicone screw septa (100/pk)	5191-8151
	InfinityLab solvent filtration assembly: includes glass funnel (250 mL), membrane holder glass base, glass flask (1 L), and aluminum clamp	5191-6776
Solvents	Regenerated Cellulose Filter membrane 47 mm, 0.20 µm 100/pk	5191-4340
	InfinityLab Ultrapure LCMS Acetonitrile (for needle wash)	5191-4496
	LC-MS grade MeOH (for organic mobile phase, SPE reagent, diluent and needle wash)	5190-6896
Standard***	InfinityLab Ultrapure LCMS Water	5191-4498
	PFC Calibration Standard (For use with system performance evaluation, troubleshooting and ongoing system evaluation)	ITA-70

* For optimal recoveries, cartridges should be rinsed with basic methanol before conditioning with buffer.

** If using solvents other than those listed in this table, use the InfinityLab Solvent Filtration assembly to filter prior to analysis.

*** More information at: www.agilent.com/chem/standards

Agilent CrossLab services

CrossLab is an Agilent capability that integrates services and consumables to support workflow success and important outcomes like improved productivity and operational efficiency. Through CrossLab, Agilent strives to provide insight in every interaction to help you achieve your goals. CrossLab offers method optimization, flexible service plans, and training for all skill levels. We have many other products and services to help you manage your instruments and your lab for best performance.

Learn more about Agilent CrossLab, and see examples of insight that leads to great outcomes, at www.agilent.com/crosslab

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