

Recommended Consumables for PFAS Analysis

▶ EPA 533

Some PFAS can be present in common lab supplies used for this method. If the individual PFAS of interest are present at substantial concentrations, they will impact the overall performance of your method, and, in some cases, your results will be outside commonly accepted QA/QC criteria, including those listed in EPA methods.

We have tested an extensive list of supplies, including sampling containers, pipette tips, vials, and more to verify they are suitable for the analysis of PFAS in accordance with EPA 533.

NOTE: SPE cartridges, sample reservoir, and vacuum manifold are commonly used for sample cleanup and concentration. Our recommendations are coming soon.

This list includes the supplies we evaluated and currently recommend.

WE STRONGLY RECOMMEND THAT YOU ALWAYS TEST FOR PFAS PRESENCE WHEN USING PRODUCTS FROM NEW MANUFACTURERS OR STARTING A NEW LOT.

P/N	ITEM NAME	DESCRIPTION
SIGM-B9907-12EA	Nalgene Bottles, Round, 250mL Capacity, 12/pk	Round, wide-mouth polypropylene bottle, ideal for sample collection for PFAS analysis. Includes linerless polypropylene cap for a leak-proof seal, 250 mL capacity. Style 2015, pack of 12.
SIGM-Z377341-1PAK	Nalgene Bottles, Square, 250mL Capacity, 12/pk	Square, wide-mouth polypropylene bottle, ideal for sample collection for PFAS analysis. Includes linerless polypropylene cap for a leak-proof seal, 250 mL capacity. Style 2110, pack of 12.
EPPE-0030122151	Eppendorf 15 mL Conical Tubes, 500/pk	Polypropylene tube with 1mL (approx.) gradation lines and polyethylene screw cap. 10 bags x 50 tubes.
https://well-labs.com/	Wellington EPA-533PAR	Native Analyte Primary Dilution Standard (PDS): 25 compounds
https://well-labs.com/	Wellington EPA-533ES	Isotope Dilution Standard PDS: 16 compounds
https://well-labs.com/	Wellington EPA-533IS	Isotope Performance Standard PDS: 3 compounds
220-91239-30	Tuning solution	LCMS Tuning Solution
227-30015-03	Shim-pack GIST C18 5µm, 3.0 x 50mm	Delay Column
227-30008-03	Shim-pack GIST C18, 3µm, 2.1 x 50mm	Analytical Column
220-91545-72	Ammonium Acetate, 25g	Honeywell LCMS analytical grade
220-91545-11	Methanol, 4 x 4L	Honeywell Chromasolv LCMS grade
220-91545-31	Methanol, 1 x 4L	Honeywell Chromasolv LCMS grade
220-91545-15	Water, 1 x 1L	B&J LCMS grade
220-91545-12	Water, 4 x 4L	Honeywell Chromasolv LCMS grade
220-91545-32	Water, 1 x 4L	Honeywell LCMS grade
SIGM-S0751-100G	Sodium Phosphate Monobasic, 100g	ReagentPlus grade, ≥99.0%, powder, in polypropylene bottle.

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P/N	ITEM NAME	DESCRIPTION
SIGM-S9763-100G	Sodium Phosphate Dibasic, 100g	ACS reagent grade, $\geq 99.0\%$, powder, in polypropylene bottle.
220-91545-77	Ammonium Hydroxide, 100mL	HPLC grade, 28-30% solution.
220-95281-15	Sodium Hydroxide, 500g	ACS Reagent Grade, $>97\%$.
SIGM-A6283-500ML	Acetic Acid, 500mL	LCMS Grade
228-31600-91	Clear PP Vials, 1mL with Plug Cap, 100/pk	Polypropylene vial with polypropylene plug cap (not resealable after needle puncture.)
220-97331-58	Clear PP Vials, 1.5mL, 100/pk	Polypropylene vial with 0.5mL gradations. Requires cap 220-91521-12.
220-97331-59	Amber PP Vials, 1.5mL, 100/pk	Amber polypropylene vial with 0.5mL gradations. Requires cap 220-91521-12.
220-91521-12	PE Septumless Caps, 100/pk	Polyethylene cap with a thin membrane for the needle target. Not resealable after needle puncture.
220-91521-30	2 mL Polypropylene Cryo Vial, 1000/case	Self-standing cryo vial for storing standards at $< 4\text{C}$.
SIGM-CLS4115-960EA	Pipette Tips, Corning DeckWorks, 0.1-10 μL , 10 Trays x 96 Tips	Clear, 0.1-10 μL polypropylene tips packaged in convenient 96-position trays. Non-sterile, RNase and DNase free. 10 trays x 96 tips per tray.
SIGM-CLS4117-960EA	Pipette Tips, Corning DeckWorks, 1-200 μL , 10 Trays x 96 Tips	Yellow, 1-200 μL polypropylene tips packaged in convenient 96-position trays. Non-sterile, RNase and DNase free. 10 trays x 96 tips per tray.
SIGM-CLS4713-1000EA	Pipette Tips, Corning, 100-1000 μL , 10 Trays x 100 Tips	Blue, 100-1000 μL polypropylene tips packaged in convenient 96-position trays. Non-sterile, RNase and DNase free. 10 trays x 100 tips per tray.
SIGM-Z640077-1000EA	Pipette Tips, Eppendorf epT.I.P.S. Standard, 0.1-20 μL , 1000/pk Bulk	0.1-20 μL pipette tip optimized for the Eppendorf pipette with complete sealing and reduced-force tip attachment and ejection. Also compatible with other pipettor brands. Bulk pack (2 bags of 500.) Long, narrow tips reach the base of narrow and high vessels without touching the top of the vessel edge.
SIGM-Z740030-1000EA	Pipette Tips, Millipore BRAND, 2-200 μL , 1000/pk Bulk	Yellow polypropylene pipette tip, 2-200 μL capacity. Non-sterile, RNase and DNase free. Bulk pack (1 bag of 1000.)
SIGM-CLS4868-1000EA	Pipette Tips, Corning, 100-1000 μL , 1000/pk Bulk	Blue polypropylene pipette tip, 100-1000 μL capacity. Non-sterile, bulk pack (1 bag of 1000.)



Visit www.OneLabOneEarth.com/pfas for more information



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