

# Recommended Consumables for PFAS Analysis

## ► EPA 537.1

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, pipettes tips, vials, and more to verify they are suitable for the analysis of PFAS in accordance with EPA 537.1.

**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.
SIGM-T7193-100G	Reagents, Trizma Pre-set Crystals, 100g	BioPerformance Certified grade powder in polypropylene bottle. Average MW 154.8. Dissolve in water to make a 0.1M solution. No pH adjustment is necessary.
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.
<a href="https://well-labs.com/">https://well-labs.com/</a>	Wellington EPA-537PDS-R1	Analyte Primary Dilution Standard (branched/linear mix)
<a href="https://well-labs.com/">https://well-labs.com/</a>	Wellington EPA-537SS-R1	Surrogate Primary Dilution Standard (SUR PDS)
<a href="https://well-labs.com/">https://well-labs.com/</a>	Wellington EPA-537IS	Internal Standard Primary Dilution Standard (IS PDS)
220-91239-30	Tuning solution	LCMS Tuning Solution
227-30015-03	Shim-pack GIST C18, 5µm, 3.0 x 50mm	Delay Column
220-91246-17	MarvelXACT Stainless Steel 254µm x 150mm Tubing w/Fittings	Connector for Delay Column
227-32003-02	Shim-pack Velox SP-C18, 2.7µm, 2.1 x 50mm	Analytical Column
227-32041-01	Column, LC, Shim-pack Velox EXP Direct Connect Guard Column Holder	Guard Column Holder
227-32029-01	Column, LC, Shim-pack Velox SP-C18 EXP Guard Column Cartridge 2.7µm 2.1x5 mm 3-pk	Guard column

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P/N	ITEM NAME	DESCRIPTION
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 Chromasolv LCMS grade
SIGM-S0751-100G	Reagents, LC, Sodium Phosphate Monobasic, 100g	ReagentPlus grade, $\geq 99.0\%$ , powder, in polypropylene bottle.
SIGM-S9763-100G	Sodium Phosphate Dibasic, 100g	ACS reagent grade, $\geq 99.0\%$ , powder, in polypropylene bottle.
SIGM-A6283-500ML	Acetic Acid, 500mL	LCMS grade
220-97331-94	Vials, 1.5mL, Clear Silanized Glass with PE/Silicone Cap & Septa, 12 x 32mm, 9mm opening 100/pk	PTFE-free caps and silanized glass vials
220-91530-72	Vials, Clear PP with PE/Silicone Cap & Septa, 12 x 32mm, 9mm opening 100/pk	PTFE-free caps and PP vials
220-97331-91	Vials, Screw Cap & Septa Only, PE/Silicone, Blue, 100/pk	PTFE-free caps
SIGM-CLS4115-960EA	Pipette Tips, Corning DeckWorks, 0.1-10 $\mu$ L, 10 Trays x 96 Tips	Clear, 0.1-10 $\mu$ L 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 $\mu$ L, 10 Trays x 96 Tips	Yellow, 1-200 $\mu$ L 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 $\mu$ L, 10 Trays x 100 Tips	Blue, 100-1000 $\mu$ L 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 ep.T.I.P.S. Standard, 0.1-20 $\mu$ L, 1000/pk Bulk	0.1-20 $\mu$ L 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 $\mu$ L, 1000/pk Bulk	Yellow polypropylene pipette tip, 2-200 $\mu$ L capacity. Non-sterile, RNase and DNase free. Bulk pack (1 bag of 1000.)
SIGM-CLS4868-1000EA	Pipette Tips, Corning, 100-1000 $\mu$ L, 1000/pk Bulk	Blue polypropylene pipette tip, 100-1000 $\mu$ L capacity. Non-sterile, bulk pack (1 bag of 1000.)
SIGM-57226	SPE Tube, Supelclean ENVI-Chrom P for EPA 537.1, 6mL, 500mg, 30/pk	PSDVB bed, 6mL. Retains hydrophobic compounds with some hydrophilic functionality under reversed phase conditions. Suitable for PFAS, aromatics, phenols, and other priority pollutants in aqueous samples.



Visit [www.OneLabOneEarth.com/pfas](http://www.OneLabOneEarth.com/pfas) for more information



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