



## The right columns and consumables to maximize your environmental workflow

Our diverse portfolio of columns and consumables offers complete workflow solutions to support your environmental application needs.

Find our suggested consumables on [fishersci.com](http://fishersci.com), organized by products, and get the most out of your analysis.

### General environmental workflow resources

GC columns by application		
Application	Cat. No.	Product Description
Volatile Organic Compounds (VOC)	26-080-4950	Thermo Scientific™ TraceGOLD™ TG-VMS GC (20 m x 0.18 mm ID x 1 µm) for GC-MS Reference: EPA methods 502, 524, 8260, 624, TO-15, TO-17
	03-254-065	Thermo Scientific™ TraceGOLD™ TG-5MS GC column (30 m x 0.25 mm ID x 0.5 µm) for GC-MS Reference: EPA method 8270E
Semi Volatile Organic Compounds (SVOC)	03-155-043	TraceGOLD TG-5MS GC column (30 m x 0.25 mm ID x 0.25 µm) with 5m GUARD
	26-096-1420	Thermo Scientific™ TraceGOLD™ TG-5SILMS GC column (30 m x 0.25 mm ID x 0.25 µm), very low bleed and ideal for GC-MS/MS
Polycyclic Aromatic Hydrocarbons (PAH)	26-055-0470	Thermo Scientific™ TraceGOLD™ TG-PAH GC column, (30 m x 0.25 mm ID x 0.1 µm)
Polybrominated Diphenyl Ethers (PBDE)	03-251-864	Thermo Scientific™ TraceGOLD™ TG-PBDE GC Column, (15 m x 0.25 mm ID x 0.1 µm)
Dioxin and Furan	03-050-802	Thermo Scientific™ TraceGOLD™ TG-Dioxin GC column, (60 m x 0.25 mm ID x 0.25 µm), Thermo Scientific™ Dioxin Analyzer
Polychlorinated Biphenyl (PCB)	26-AJ1-48P	Thermo Scientific™ TRACE™ TR-PCB 8MS GC column (50 m x 0.25 mm ID x 0.25 µm) for GC-MS
	260F296P	Thermo Scientific™ TRACE™ TR-5MS GC column (30 m x 0.25 mm ID x 0.25 µm) for GC method
	26-089-1420	Thermo Scientific™ TraceGOLD™ TG-17MS GC columns, (30 m x 0.25 mm ID x 0.25 µm)

GC columns by application		
Application	Cat. No.	Product Description
Pesticides	26-RD1-42F	Thermo Scientific™ TraceGOLD™ Pesticide II (30 m x 0.25 mm ID x 0.25 µm) with 5 m Guard, GC-MS method
	26-078-5760 & 26-077-1430	Thermo Scientific™ TraceGOLD™ TG-OCP I, (30 m x 0.32 mm x 0.32 µm) & TraceGOLD TG-OCP II (30 m x 0.32 mm ID x 0.25 µm) for GC-ECD dual-column organochlorine pesticide Reference: EPA methods 8081, 608
	26-076-2240 & 26-075-5760	Thermo Scientific™ TraceGOLD™ TG-OPP I, (30 m x 0.32 mm ID x 0.50 µm) & TraceGOLD TG-OPP II, (30 m x 0.32 mm ID x 0.32 µm) for GC-FPD or NPD dual-column organophosphorus pesticides Reference: EPA method 8141
Haloacetic Acids	26-090-1420	Thermo Scientific™ TraceGOLD™ TG-1701MS GC columns (30 m x 0.25 mm ID x 0.25 µm) for GC as primary column Reference: EPA method 552
	260F142P	Thermo Scientific™ TRACE™ TR-5MS GC column (30 m x 0.25 mm ID x 0.25 µm) for GC as confirmation column Reference: EPA method 552

## Suggested sample vials by application

Volatile Organic Compound (VOC) applications	
Cat. No.	Product Description
03-377-39	EPA screw vial assembled kit, 40 mL, 100/PK for purge and trap
14-824-365	18 mL screw top headspace vials, clear 125/PK for headspace or SPME ARROW
13-622-309	18 mm magnetic screw cap, 8 mm hole, silicone/PTFE septa, 125/PK for headspace or SPME ARROW
03-377F	9 mm wide opening silanized amber screw thread vials, ID patch, 2mL, 100/PK
03-376-481	9 mm blue autosampler vial screw thread caps with PTFE/Silicone septum, 100/PK
SVOC/PAH/PBDE/PCB/Pesticides applications	
03-377F	9 mm wide opening silanized amber screw thread vials, ID patch, 2 mL, 100/PK
03-376-481	9 mm blue autosampler vial screw thread caps with PTFE/Silicone septum, 100/PK
Dioxin analysis	
13-622-263	8 mm amber glass crimp top tapered vials, 0.7 mL, 100/PK
03-341-901	8 mm aluminum crimp cap, blue silicone/PTFE liner, 500/PK

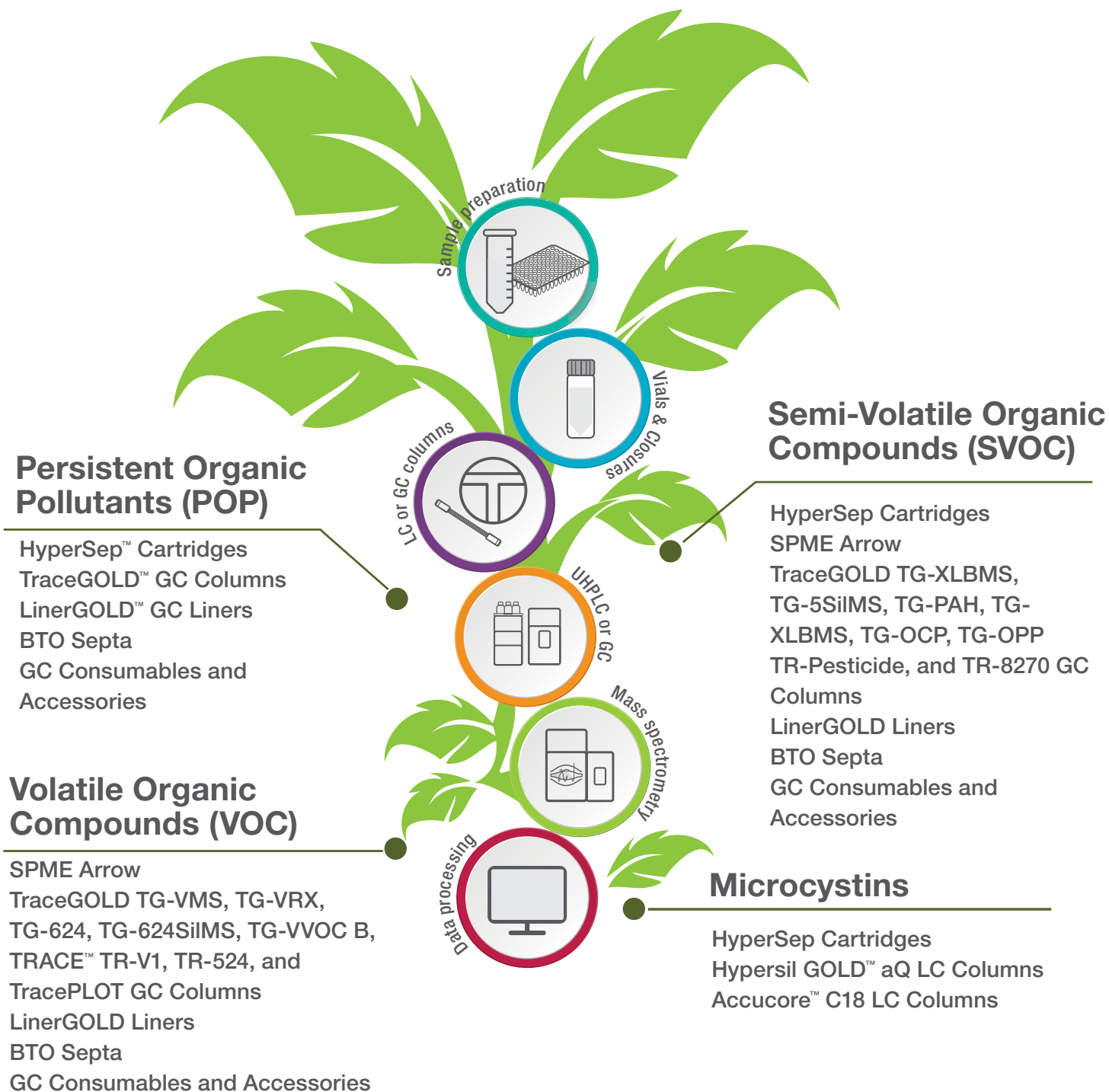
## Suggested consumables for specific environmental applications

EPA 537 Determination of selected perfluorinated alkyl acids in drinking water by Solid Phase Extraction (SPE)	
Cat. No.	Product Description
17626-102130	Analytical column: Thermo Scientific™ Accucore™ RP, 2.6 µm, 2.1 x 100 mm
28105-052130	Isolator column: Thermo Scientific™ Hypersil™ BDS C18, 5 µm, 2.1 x 50 mm

Microcystins in water direct injection method (EPA 545)	
Cat. No.	Product Description
03-050-512	Thermo Scientific™ Hypersil GOLD™ aQ, 1.9 µm, 2.1 x 100 mm
03-377F	9 mm wide opening silanized amber screw thread vials, ID patch, 2 mL, 100/PK
03-376-481	9 mm blue autosampler vial screw thread caps with PTFE/Silicone septum, 100/PK

## Determination of microcystins in water with online concentration (EPA 544)

Cat. No.	Product Description
25012-022130	Concentration column: Hypersil GOLD, 12 µm, 2.1 x 20 mm
17326-052130	Analytical column: Thermo Scientific™ Accucore™ aQ, 2.6 µm, 2.1 x 50 mm
17126-102130	Analytical column: Thermo Scientific™ Accucore™ C18, 2.6 µm, 2.1 x 100 mm
60107-211	Thermo Scientific™ HyperSep™ Retain PEP cartridges, 150 mg bed weight, 6 mL column capacity, 30/PK
C4000-S2W	9 mm wide opening silanized amber screw thread vials, ID patch, 2 mL, 100/PK
C5000-54B	9 mm blue autosampler vial screw thread caps with PTFE/Silicone septum, 100/PK
S7515-3	3 mL polypropylene lure-lok syringe
42213-PV	Thermo Scientific™ Titan3™ 0.2 µm PVDF filter, 17 mm, 200/PK



## Suggested consumables for GC instrumentation

Consumables for autosamplers						
Product Type	Cat. No.	Product Description	VOC	SVOC	Thermo Scientific™ AI/AS 1310 Series Autosampler	Thermo Scientific™ TriPlus RSH™ Autosampler
Syringes	03-450-996	10 µL fixed needle syringe, 23 gauge, cone for general liquid injection	X	X	X	X
	36-5C3-701	5µL fixed needle syringe, 23 gauge, cone for general liquid injection	X	X	X	
	NC1525502	2.5 mL headspace syringe, 23 gauge, up to 150 degrees	X			X

Consumables for Thermo Scientific™ TRACE™ GC 1300 Series-ISQ/TSQ quadrupole systems								
Product Type	Cat. No.	Product Description	VOC	SVOC	SSL	PTV	MS	
Septa	03-050-323	BTO Septa, 50/PK, blister pack	X	X	X	X		
Liners	453A0415	Direct straight liner, 1.7 mm ID, 3/PK, for SPME ARROW	X	X	X			
	03-151-668	Direct straight liner, 1.2 mm ID, 5/PK, for headspace and purge & trap	X		X			
	03-151-659	LinerGOLD™ splitless liner, wool, 4 mm ID, 5/PK	X	X	X			
	03-151-665	LinerGOLD SSL precision liner, wool, 4 mm ID, 5/PK		X	X			
	03-151-689	LinerGOLD PTV concentric baffle, 5/PK	X	X			X	
Liner Sealing Ring	NC1617560	Viton liner sealing ring for SSL, 5/PK	X	X	X			
	NC0493407	Liner sealing ring for PTV, 1/PK	X	X			X	
Inlet Seal	03-150-332	Gold plated inlet seals, 2/PK	X	X	X			
	NC0622890	Silver seal (gasket), 2/PK	X	X			X	
Ferrules	03-050-285	Graphite/vespel ferrule, 10/PK, for 0.1-0.25 mm ID GC columns	X	X	X			X
	03-050-286	Graphite/vespel ferrule, 10/PK, for 0.32 mm ID GC columns	X	X	X			X
	03-050-221	Graphite ferrule, use with 0.25 mm ID GC columns for PTV	X	X			X	
	03-050-220	Graphite ferrule, use with 0.32 mm ID GC columns for PTV	X	X			X	
Column Nut	03-375-357	Column nut for SSL/GSV/FID/TCD/ECD/FPD/NPD, 5/PK	X	X	X			
	NC0928304	Terminal bottom fitting (Column Nut) for PTV, 5/PK	X	X			X	
	03-251-526	Spring loaded MS transfer line nut for ISQ and TSQ GC systems	X	X				X
	03-251-524	Spring loaded MS transfer line nut for Exactive GC and Q Exactive GC Orbitrap systems	X	X				X

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