

Reagents for PFAS analysis

To analyze extremely low levels of PFAS in tap water, public water bodies, groundwater, mineral water, and soil, sample pretreatment using solid-phase extraction (SPE) is essential. Therefore, extraction solvents of even higher purity than ever before are required. Our PFAS testing reagents are guaranteed to contain no more than 1 ng/L of each regulated PFAS compound, allowing them to be used with confidence as extraction solvents for solid-phase extraction.

Distilled water for PFAS analysis

We are pleased to introduce our new “Distilled Water for PFAS Testing,” developed for the reliable analysis of ultra-trace levels of PFAS. The product is guaranteed to contain less than 1 ng/L of each of the ten PFAS compounds specified under drinking water quality standards and monitoring categories. Ideal for use as an extraction solvent in solid-phase extraction (SPE) procedures, it provides the high purity required for accurate PFAS analysis.

NEW	Name	Grade	Package	Catalog No.
	Distilled water	For PFAS analysis	1 L	10987-79

◆ Specification

Item		Specification
Appearance		Colorless and clear
Density (20 °C)		0.996-1.000 g/mL
Refractive index n_D^{20}		1.332-1.334
pH		5.5-7.5
Non-volatile matter		max. 5ppm
Peroxide (as H ₂ O ₂)		max. 0.5ppm
Absorbance (210 nm-)		max. 0.01
Suitability for analysis of PFAS	PFBA	max. 1 ng/L
	PFPeA	max. 1 ng/L
	PFHxA	max. 1 ng/L
	PFHpA	max. 1 ng/L
	PFOA	max. 1 ng/L
	PFNA	max. 1 ng/L
	PFBS	max. 1 ng/L
	PFHxS	max. 1 ng/L
	PFOS	max. 1 ng/L
	HFPO-DA (GenX)	max. 1 ng/L



Methanol for PFAS analysis

PFAS Suitability Testing Specification Upgraded

The guarantee for our Methanol for PFAS Testing has been strengthened from PFOS, PFOA, and PFHxS: ≤ 3 ng/L each to **PFOS, PFOA, and PFHxS: max. 1 ng/L each**.

With this enhanced specification, the product provides even greater assurance for use as an SPE extraction solvent in PFAS analysis.

Name	Grade	Package	Catalog No.
Methanol	For PFAS analysis	1 L	26109-79

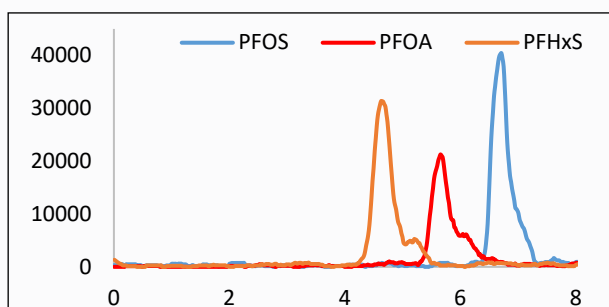
◆ Specification

Item		Specification			
Purity (GC)		min. 99.8%			
Appearance		Colorless and clear			
Density (20 °C)		0.791-0.793 g/mL			
Refractive index n_D^{20}		1.327-1.330			
Water		max. 0.05%			
Non-volatile matter		max. 5ppm			
Acid (as HCOOH)		max. 0.001%			
Peroxide (as H2O2)		max. 5ppm			
Absorbance		210 nm	max. 0.70	240 nm	max. 0.07
		220 nm	max. 0.30	254 nm	max. 0.02
		230 nm	max. 0.15	260 nm-	max. 0.01
Suitability for analysis of PFAS		Previous spec			New spec
	PFOS	max. 3 ng/L		⇒	max. 1 ng/L※
	PFOA	max. 3 ng/L		⇒	max. 1 ng/L※
	PFHxS	max. 3 ng/L		⇒	max. 1 ng/L※

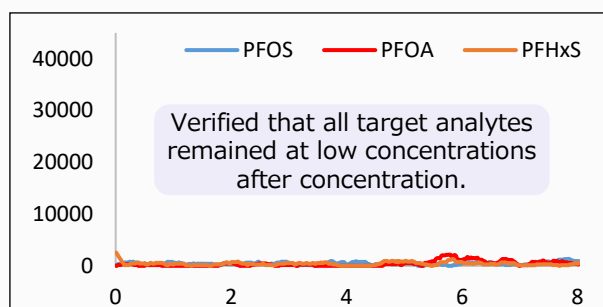
※Effective Sep. 1, 2026 production lot.

«Reference» Example PFAS Compliance Chromatogram

<Subject Product + PFAS Standards (50 ng/L each) >



<Subject Product (50x Concentrated, Blank) >



Solvent for LC/MS

Our LC/MS solvents (acetonitrile, distilled water, methanol, and 2-propanol) have undergone PFAS suitability testing, and we guarantee that PFOS, PFOA, and PFHxS are below the specified limit values.

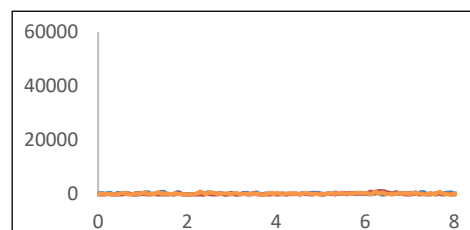
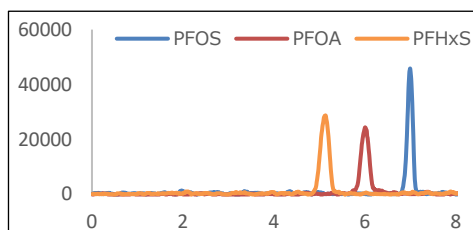
Name	Grade	Package	Catalog No.
Acetonitrile	for LC/MS	200 mL	01033-23
Acetonitrile -Plus-	for LC/MS	1 L	01033-79
		3 L	01033-76
Distilled water	for LC/MS	200 mL	11307-23
Distilled water -Plus-	for LC/MS	1 L	11307-79
		3 L	11307-76
Methanol	for LC/MS	200 mL	25185-23
Methanol -Plus-	for LC/MS	1 L	25185-79
		3 L	25185-76
2-Propanol -Plus-	for LC/MS	1 L	32435-79
		3 L	32435-76
1mol/L Ammonium acetate solution	for LC/MS	100 mL	01969-24
1mol/L Ammonium formate solution	for LC/MS	100 mL	01298-24

« Reference » Example PFAS Compliance Chromatogram

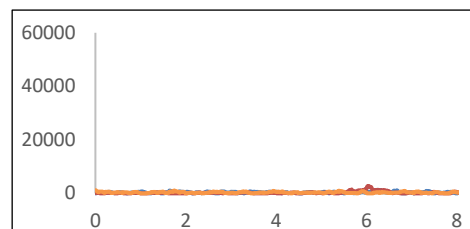
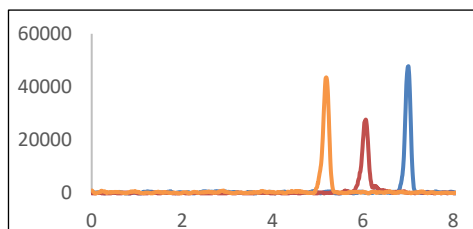
<PFOS, PFOA, PFHxS added (50 ng/L each)>

<Blank test>

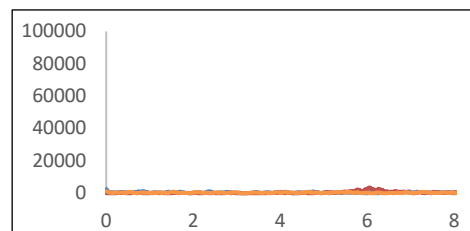
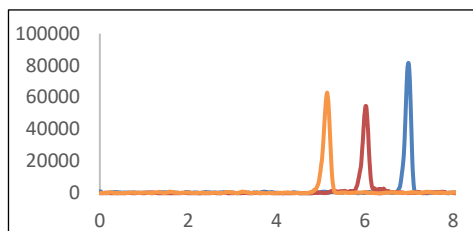
Acetonitrile



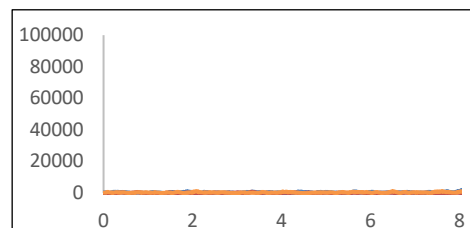
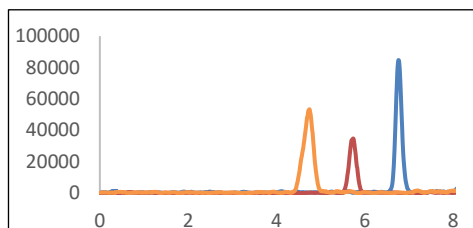
Distilled water



Methanol



2-Propanol



◆ Specification

Item	Acetonitrile -Plus-	Distilled water -Plus-	Methanol -Plus-	2-Propanol -Plus-
Purity (GC)	min. 99.9%	-	min. 99.8%	min. 99.7%
Appearance	Colorless and clear	Colorless and clear	Colorless and clear	Colorless and clear
Density (20 °C)	0.780-0.784 g/mL	0.996-1.000 g/mL	0.791-0.793 g/mL	0.784-0.786 g/mL
Refractive index n_D^{20}	1.343-1.346	1.332-1.334	1.327-1.330	1.376-1.378
pH	-	5.5-7.5	-	-
Water	max. 0.03%	-	max. 0.05%	max. 0.1%
Non-volatile matter	max. 5ppm	max. 5ppm	max. 5ppm	max. 0.001%
Acid	max. 5ppm (as CH ₃ COOH)	-	max. 0.001% (as HCOOH)	max. 0.001% (as C ₂ H ₅ COOH)
Metals (14 Elements) ^{※1}	max. 0.01ppm each (Na: max. 0.02ppm)	max. 0.01ppm	max. 0.01ppm each (Na: max. 0.02ppm)	max. 0.01ppm each (Na: max. 0.05ppm)
Peroxide (as H ₂ O ₂)	max. 5ppm	max. 0.5ppm	max. 5ppm	max. 5ppm
Gradient test	to pass test	to pass test	-	-
Absorbance	200 nm max. 0.050 210 nm max. 0.030 220 nm max. 0.015 225 nm max. 0.010 230 nm max. 0.010 240 nm- max. 0.009	210 nm- max. 0.01	210 nm max. 0.70 220 nm max. 0.30 230 nm max. 0.15 240 nm max. 0.07 254 nm max. 0.02 260 nm- max. 0.01	210 nm max. 0.70 230 nm max. 0.15 250 nm max. 0.02 260 nm-400 nm max. 0.01
Relative fluorescence intensity	to pass test	to pass test	to pass test	to pass test
Suitability for LAS analysis	-	-	to pass test	-
Suitability for LC/MS	to pass test	to pass test	to pass test	to pass test
Suitability for analysis of PFAS	to pass test	to pass test	to pass test	to pass test
Particle (>0.3 μm) ^{※2}	max. 100 pcs/mL	max. 100 pcs/mL	max. 100 pcs/mL	max. 100 pcs/mL
Particle (>0.5 μm) ^{※2}	max. 50 pcs/mL	max. 50 pcs/mL	max. 50 pcs/mL	max. 50 pcs/mL

Item	1mol/L Ammonium acetate solution	1mol/L Ammonium formate solution
Concentration	0.95-1.05 mol/L	0.95-1.05 mol/L
Appearance	Colorless and clear	Colorless and clear
pH (25 °C)	6.7-7.2	6.4-6.8
Absorbance	240 nm max. 0.40 254 nm max. 0.03 270 nm-400 nm max. 0.01	240 nm max. 0.40 254 nm max. 0.03 270 nm-400 nm max. 0.01
Metals (14 Elements) ^{※1}	max. 1ppm each	max. 1ppm each
Suitability for LC/MS	to pass test	to pass test
Suitability for analysis of PFAS	to pass test	to pass test

※1 Metals (14 Elements) : Na, K, Cu, Mg, Ca, Ba, Zn, Cd, Pb, Cr, Mn, Fe, Co, Ni

※2 Particle testing is not included for the 200 mL package size.

- Please use the products listed in the catalog as reagents (chemicals used for testing or research purpose).
- Product information is subject to change without notice. For the latest information, please have a look at our website "Cica-Web".



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