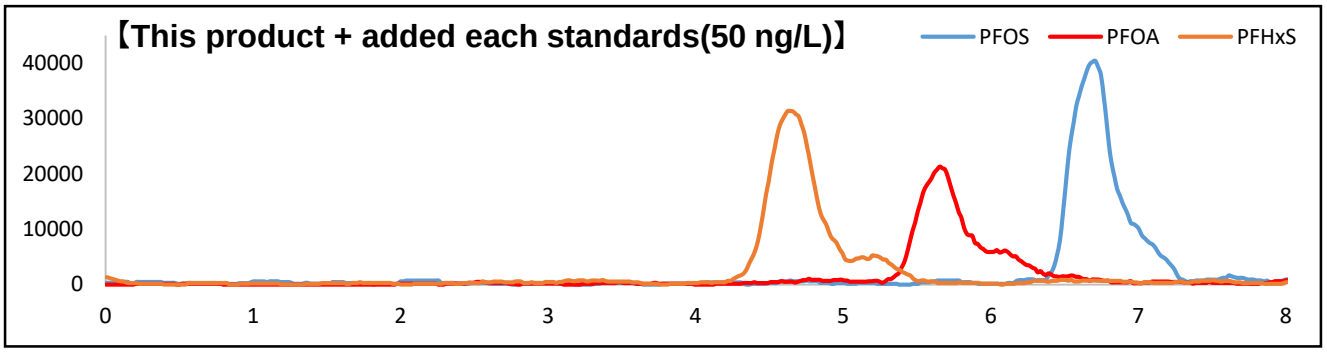
Reagents for PFAS analysis

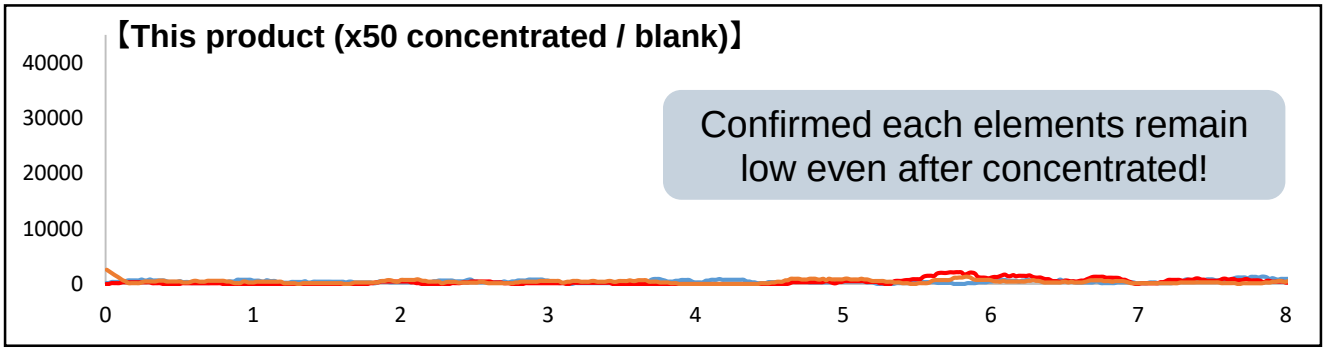
Kanto Chemical launch PFAS analysis grade Methanol. High quality extraction solvents are required because pretreatment by concentration is essential when analyzing extremely trace amounts of PFAS at the single-digit ppt level. This product can guarantee extremely trace amounts of PFAS by improving the manufacturing process with the aim of reducing PFAS content.

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

Specification

Item		Spec.
Purity (GC)		min. 99.8%
Appearance		Colorless and clear
Density (20 ℃)		0.791～0.793 g/mL
Refractive index		1.327～1.330
Water		max. 0.05%
Non-volatile matter		max. 5ppm
Acid (as HCOOH)		max. 0.001%
Peroxide (as H_2O_2)		max. 5ppm
Absorbance		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
Suitability for analysis of PFAS	**PFOS**	**max. 3 ng/L**
	PFOA	**max. 3 ng/L**
	PFHxS	**max. 3 ng/L**





● ISO21675：2019　Pre-treatment method using solid phase extraction

Conditioning
1) 0.1% Ammonia/Methanol (4 mL)
2) Methanol (4 mL)
3) Ultrapure water (4 mL)

Loading
Sample 100 mL + Internal standard

Washing
1) Ultrapure water (4 mL)
2) 25 mM Acetate buffer (pH4 / 4 mL)

Centrifugation
2min

Extraction
1) For neutral PFAS
Methanol (5 mL)
2) For ionic PFAS
0.1% Ammonia/Methanol (5 mL)

Concentration by nitrogen blowdown
(5→1 mL)

LC-MS/MS

Airtight quick cap storage bottle

This storage bottle has a unique design that combines a screw port with a ground glass cap for storing volatile solutions and various reference standards .

Cap
It is a transparent ground glass cap.

Bottom Shape
There are 2 types, Flat bottom and V-bottom.

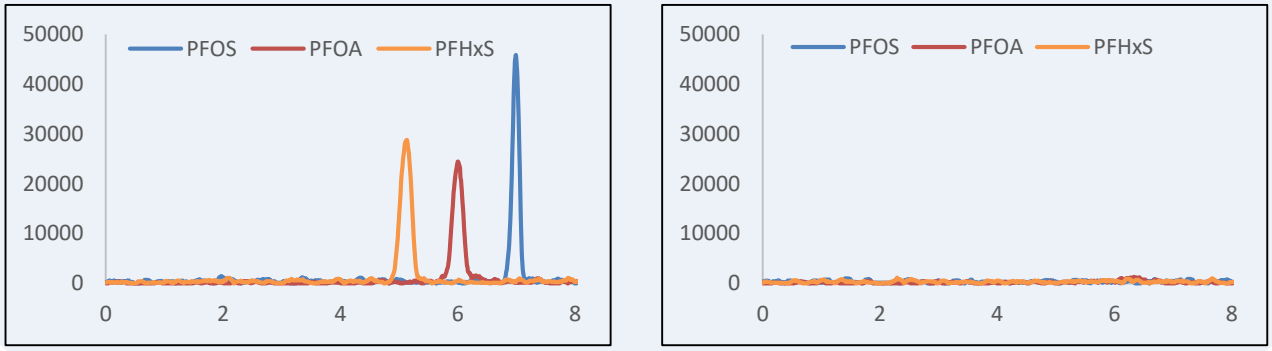
Name	Bottom shape	Size	Catalog No.
Airtight quick cap storage bottle	V-bottom	2 mL	96940-30
	V-bottom	5 mL	96940-36
	Flat	10 mL	96940-31
	V-bottom	10 mL	96940-37
	Flat	20 mL	96940-32
	Flat	50 mL	96940-33
	Flat	100 mL	96940-34

Solvents for LC/MS

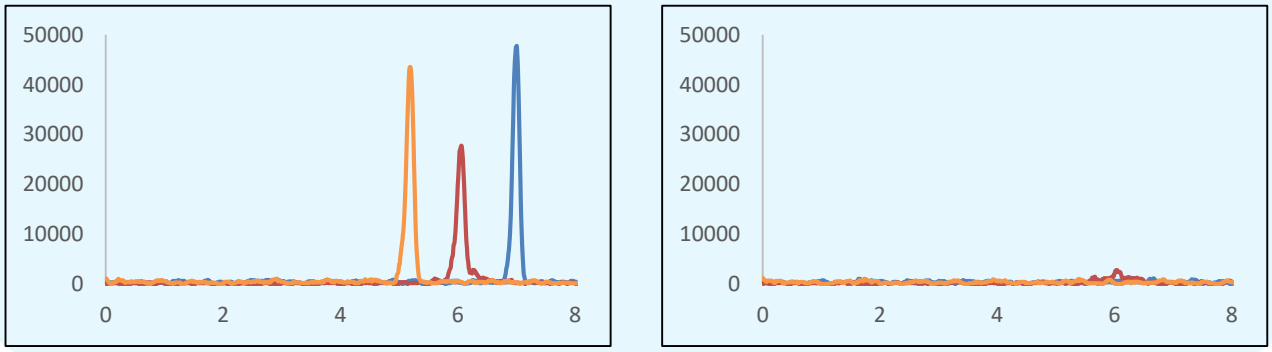
Our LC/MS grade solvents (Acetonitrile, Distilled water and Methanol) test "Suitability for analysis of PFAS". This guarantees total of PFOS and PFOA is 50 ng/L or less.

＜Added PFOS / PFOA / PFHxS (each 50 ng/L)＞ ＜Blank＞

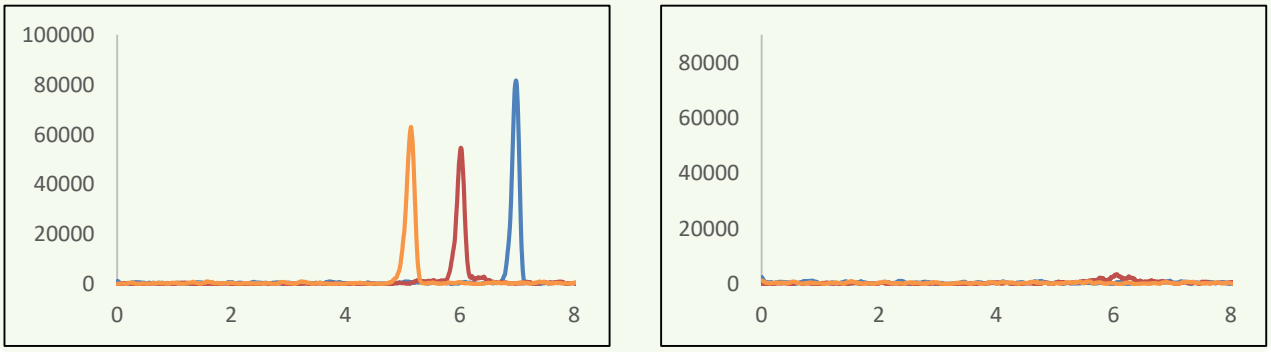
Acetonitrile



Distilled water



Methanol



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

● Specification

Item	Acetonitrile	Distilled water	Methanol
Purity (GC)	min.99.9%	-	min. 99.8%
Appearance	Colorless and clear	-	Colorless and clear
Density (20 ℃)	0.780～0.784 g/mL	0.996～1.000 g/mL	0.791～0.793 g/mL
Refractive index	1.343～1.346	1.332～1.334	1.327～1.330
pH (5.5 - 7.5)	-	to pass test	-
Water	max. 0.03%	-	max. 0.05%
Non-volatile matter	max. 5ppm	max. 0.001%	max. 5ppm
Acid	max. 5ppm (as CH_3HCOOH)	-	max. 0.001% (as HCOOH)
Peroxide (as H_2O_2)	max. 5ppm	max. 1 ppm	max. 5ppm
Metals(14 elements) ※1	each max. 0.01ppm (Na: max. 0.02ppm)	each max. 0.01ppm	each max. 0.01ppm (Na: max. 0.02ppm)
Gradient test	to pass test	to pass test	-
Relative fluorescence intensity	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
Particle (>0.3 µm) ※2	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
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
Suitability for analysis of PFAS	to pass test	to pass test	to pass test

Item	1 mol/L Ammonium acetate	1 mol/L Ammonium formate
Concentration	0.95～1.05 mol/L	0.95～1.05 mol/L
Appearance	Colorless and clear	Colorless and clear
pH (25 ℃)	6.7～7.2	6.4～6.8
Absorbance	240 nm max. 0.40 254 nm max. 0.03 270～400 nm max. 0.01	240 nm max. 0.40 254 nm max. 0.03 270～400 nm max. 0.01
Metals(14 elements) ※1	each max. 1ppm	each max. 1ppm
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): Ba, Ca, Cd, Co, Cr, Cu, Fe, Na, K, Mg, Mn, Ni, Pb, Zn
※2 There is no guarantee of Particle for 200 mL package product.

- 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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