



RESINTECH[®] INC.

INNOVATIONS IN ION EXCHANGE



Water Analysis

CAPABILITIES & PACKAGES



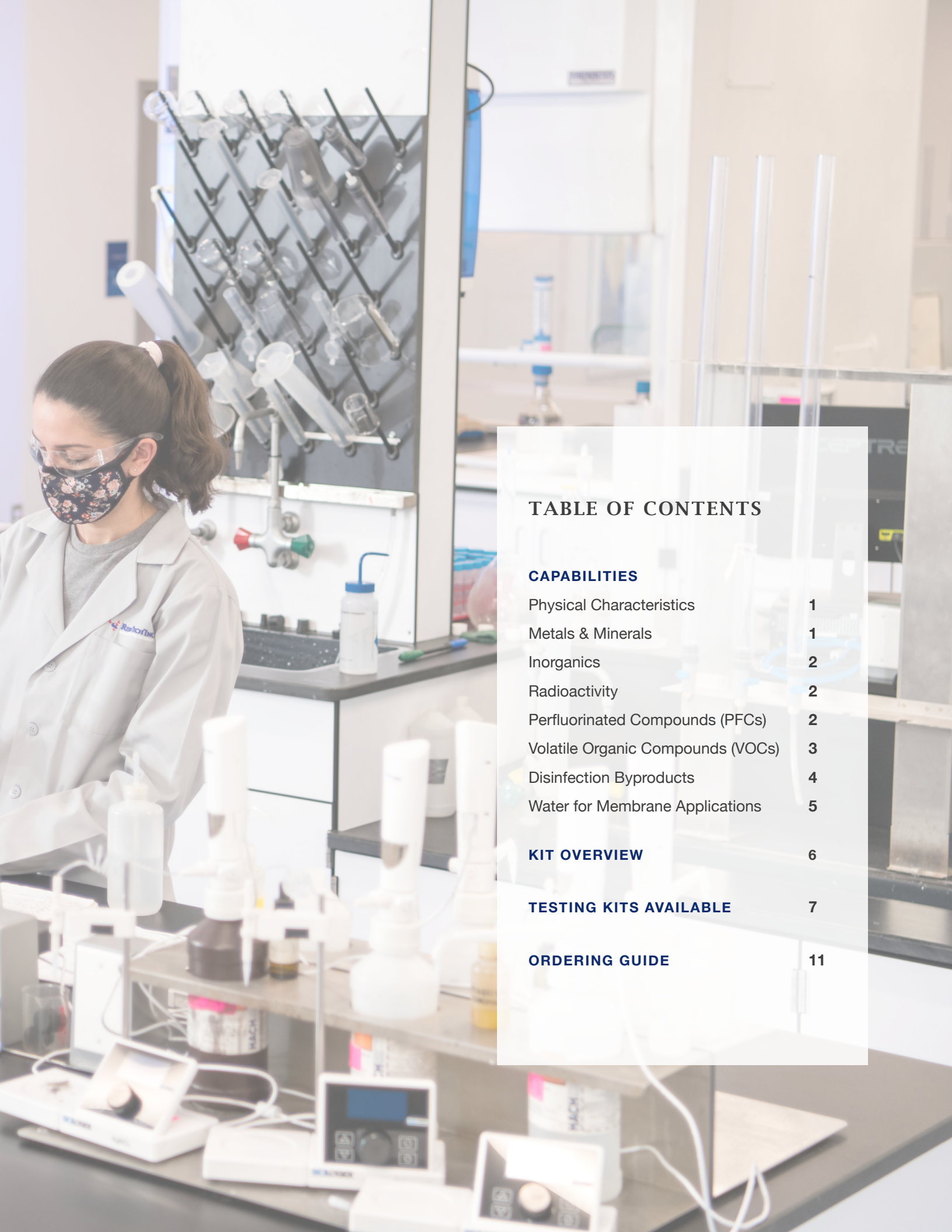


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**The brightest scientists.
The most advanced technology.**

We're dedicated to making water healthier to drink and safer to use. So it just makes sense that we would have the brightest minds and most sensitive laboratory equipment in the world needed to measure your water's composition.

Each year, our Lab Services team analyzes thousands of water samples in our 6,000 square foot world-renowned laboratory. Using state-of-the-art instrumentation capable of the most minute detection levels, they provide an unbiased, quantitative analysis of your water and recommend solutions to help it work better for you.

Physical Characteristics

This list of physical characteristics includes a list of nine (9) tests that can be critical in diagnosing water quality problems. These items are analyzed using wet chemistry methods.

ANALYTE (mg/L)	MDL
Alkalinity	20
Color (Pt Co units)	-
Conductivity (Micromho/cm)	-
LSI (Standard Units)	-
Odor (TON Units)	-
pH (Standard Units)	-
Total Dissolved Solids	20
Total Hardness	10
Turbidity	0.01

Metals & Minerals

Identify the presence of periodic elements whether naturally occurring or stemming from human influences or industrial processes.

ANALYTE (mg/L)	MDL
Aluminum	0.0025
Antimony	0.0001
Arsenic	0.00005
Barium	0.00025
Beryllium	0.00025
Cadmium	0.0005
Calcium	0.005
Chromium (Total)	0.001
Copper	0.001
Iron	0.005
Lead	0.0006
Lithium	0.001
Magnesium	0.0025
Manganese	0.001
Mercury	0.001
Molybdenum	0.0001
Nickel	0.0005
Phosphorous	0.001
Potassium	0.001
Selenium	0.0005
Silver	0.0005
Silica	0.05
Sodium	0.005
Strontium	0.0005
Thallium	0.0005
Tin	0.0001
Titanium	0.0001
Uranium	0.001
Vanadium	0.0005
Zinc	0.0001

Inorganic Compounds

Inorganic compounds can be naturally occurring in water, based upon the localized geological formations. However, many inorganic compounds end up in the water due to agricultural activities and in the case of fluoride may be purposefully added to the water.

ANALYTE (mg/L)	MDL
Bromide	0.010
Chloride	0.010
Fluoride	0.010
Nitrite (as N)	0.010
Nitrate (as N)	0.010
Ortho-Phosphate	0.010
Sulfate	0.010

Radiologicals

Radiological contaminants such as radon, radium and uranium in water can impact treatment options, due to potential disposal concerns.

ANALYTE (pCi/L)	MDL
Gross Alpha	3.000
Gross Beta	4.000

Our laboratory testing services is approved under our **ISO 9001:2015 certification**, ensuring we follow a detailed quality assurance plan to maintain the highest possible accuracy and precision. Our on going performance evaluation studies further ensure we continually provide customers with dependable results.

Per - & Polyfluoroalkyl Substances (PFAS)

Previously referred to as PFCs (Per- and Polyfluorinated chemicals) these compounds are sometimes called “forever chemicals” because of their durability, persistence, and tendency to bioaccumulate in the blood and organs over time. These long-chain, fluorinated organic compounds contain only carbon fluorine bonds and C-C bonds along with other heteroatoms. They are not found naturally in the environment and are therefore (by definition) man-made chemicals or derivatives of man-made chemicals that have broken down.

ANALYTE (ng/L)	MDL 2.8
Hexafluoropropylene oxide dimer acid (GenX)	
N-ethyl perfluorooctanesulfonamidoacetic acid	
N-methyl perfluorooctanesulfonamidoacetic acid	
Perfluorobutanesulfonic acid	
Perfluorodecanoic acid	
Perfluorododecanoic acid	
Perfluoroheptanoic acid	
Perfluorohexanesulfonic acid	
Perfluorohexanoic acid	
Perfluorononanoic acid	
Perfluorooctanesulfonic acid	
Perfluorooctanoic acid	
Perfluorotetradecanoic acid	
Perfluorotridecanoic acid	
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	
4,8-Dioxa-3h-perfluorononanoic acid	
Perfluoroundecanoic acid (PFUnA)	

Volatile Organic Compounds (VOCs)

VOCs are organic chemicals that have a high vapor pressure at ambient temperatures, meaning they will volatilize into the air. These are typically industrial solvents and petroleum-based byproducts.

ANALYTE (mg/L)	MDL
1,1 Dichloroethane	0.001
1,1 Dichloroethylene	0.001
1,1 Dichloropropene	0.001
1,1,1 Trichloroethane	0.001
1,1,1,2 Tetrachloroethane	0.001
1,1,2 Trichloroethane	0.001
1,1,2,2 Tetrachloroethane	0.001
1,2 Dichlorobenzene	0.001
1,2 Dichloroethane	0.001
1,2 Dichloropropane	0.001
1,2,3 Trichlorobenzene	0.001
1,2,3 Trichloropropane	0.001
1,2,4 Trichlorobenzene	0.001
1,2,4 Trimethylbenzene	0.001
1,3 Dichlorobenzene	0.001
1,3 Dichloropropane	0.001
1,3,5 Trimethylbenzene	0.001
1,4 Dichlorobenzene	0.001
2 Hexanone	0.001
2,2 Dichloropropane	0.001
Acetone	0.001
Benzene	0.001
Bromobenzene	0.001
Carbon Tetrachloride	0.001
Chlorobenzene	0.001
Tin	0.001
Chloromethane	0.001

ANALYTE (mg/L)	MDL
2 Chlorotoluene	0.001
4 Chlorotoluene	0.001
cis 1,2 Dichloroethylene	0.001
Dichlorodifluoromethane	0.001
Dichloromethane	0.001
Ethylbenzene	0.001
Ethylene dibromide	0.001
Hexachlorobutadiene	0.001
Isopropylbenzene	0.001
m,p Xylene	0.001
Methyl Tertiary Butyl Ether	0.001
Methyl Ethyl Ketone	0.001
Naphthalene	0.001
n Butylbenzene	0.001
n Propylbenzene	0.001
o Xylene	0.001
p Isopropyltoluene	0.001
sec Butylbenzene	0.001
Styrene	0.001
tert Butylbenzene	0.001
Tetrachloroethylene	0.001
Tetrahydrofuran	0.001
Toluene	0.001
trans 1,3 Dichloropropene	0.001
Trichloroethylene	0.001
Trichlorofluoromethane	0.001
Vinyl Chloride	0.001

Disinfection By-Products

Trihalomethanes

Trihalomethanes are byproducts of disinfection and are formed when chlorine reacts with naturally occurring organic matter already present in water. Trihalomethanes are common in municipal water, but can also be found in wells that have been shock chlorinated or are continuously treated with chlorine.

ANALYTE (mg/L)	MDL
Bromodichloromethane	0.001
Bromoform	0.001
Bromochloromethane	0.001
Bromomethane	0.001
Chloroform	0.001
Dibromochloromethane	0.001
Dibromochloropropane	0.001
Dibromomethane	0.001
Total THMs	0.001

Haloacetic Acids

These are the second most common type of disinfection byproducts. They form by the reaction of chlorine, chlorine dioxide, chloramine or ozone with naturally occurring organic material and bromine that may already be present in the water.

ANALYTE (mg/L)	MDL
Monochloroacetic Acid	0.001
Dichloroacetic Acid	0.001
Monobromoacetic Acid	0.001
Trichloroacetic Acid	0.001
Dibromoacetic Acid	0.001
Total Haloacetic Acids	0.001
Bromochloroacetic acid (BCAA)	0.001
Bromodichloroacetic acid (BDCAA)	0.001
Chlorodibromoacetic acid (CDBAA)	0.001
Tribromoacetic acid (TBAA)	0.001



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Water for Membrane Applications

When considering membrane technology such as nanofiltration or reverse osmosis for water treatment, a water test is critical to determine which technology may be better suited or if additional pretreatment may be necessary.

Metals & Minerals

ANALYTE (mg/L)	MDL
1,1 Dichloroethane	0.0025
1,1 Dichloroethylene	0.0025
1,1 Dichloropropene	0.00025
1,1,1 Trichloroethane	0.00025
1,1,1,2 Tetrachloroethane	0.001
1,1,2 Trichloroethane	0.0005
1,1,2,2 Tetrachloroethane	0.005
1,2 Dichlorobenzene	0.001
1,2 Dichloroethane	0.0005
1,2 Dichloropropane	0.005
1,2,3 Trichlorobenzene	0.0006
1,2,3 Trichloropropane	0.0001
1,2,4 Trichlorobenzene	0.0025
1,2,4 Trimethylbenzene	0.001
1,3 Dichlorobenzene	0.0001
1,3 Dichloropropane	0.0005
1,3,5 Trimethylbenzene	0.01
1,4 Dichlorobenzene	0.005
2 Hexanone	0.0005
2,2 Dichloropropane	0.005
Acetone	0.0005
Benzene	0.0005
Bromobenzene	0.0001
Carbon Tetrachloride	0.001
Chlorobenzene	0.0005
Tin	0.0001

Inorganics

ANALYTE (mg/L)	MDL
Bromide	0.01
Chloride	0.01
Fluoride	0.01
Free Chlorine	0.05
Total Chlorine	0.1
Nitrate	0.01
Nitrite	0.01
Ortho-Phosphate	0.01
Sulfate	0.01

Wet Chemistry Parameters

ANALYTE (mg/L)	MDL
Alkalinity (as CaCO ₃)	5
Bicarbonate (as HCO ₃)	5
Carbonate (Ca CaCO ₃)	5
Carbon Dioxide	5
Conductivity (µmhos/cm)	2
Hardness	0.05
Langlier Index	-
pH (Standard Units)	-
TOC	0.2
Total Dissolved Solids	20
Turbidity (NTU)	0.1
Silica (as SiO ₂)	0.05
Total Cations as CaCO ₃	-
Total Anions as CaCO ₃	-

What's in your water? For your convenience, ResinTech offers **pre-packaged testing kits** for your home or business. We provide the instructions and containers, **you simply fill them up and send them back to us.** We'll do the rest.

TESTING KIT OVERVIEW				
	BASIC	STANDARD	DELUXE	ULTRA
WELL WATER	Physical Inorganics Metals & Minerals	Physical Inorganics Metals & Minerals VOCs	Physical Inorganics Metals & Minerals VOCs Radiologicals	Physical Inorganics Metals & Minerals VOCs Radiologicals PFAS

* City Water assessments include corresponding well water assessments (above) in addition to the following:

CITY WATER*	Disinfectants	Disinfectants Trihalomethanes	Disinfectants Trihalomethanes Haloacetic Acids	- - -
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Well Water Kits



Basic Well Water Kit

Tests for:

- (29) metals and minerals
- (7) other inorganic compounds
- (9) physical

Includes:

- One (1) 500 ml bottle
- One (1) ice pack

Add-Ons Available:

- Radon
- TOC
- Gross Alpha Beta
- Iron Bacteria
- Tannins



Standard Well Water Kit

Tests for:

- Everything included in the Basic kit
- Plus (53) volatile organic chemicals

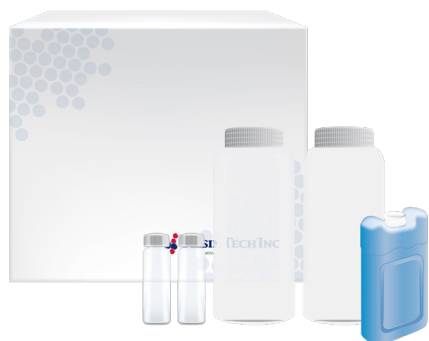
Includes:

- One (1) 500 ml bottle
- Two (2) 40 ml vials
- One (1) ice pack

Add-Ons Available:

- Radon
- TOC
- Gross Alpha Beta
- Iron Bacteria
- Tannins

All kits include instructions, submittal form and return packaging. Postage is not included.



Deluxe Well Water Kit

Tests for:

- Everything included in the Standard kit
- Plus Radiological contaminants: gross alpha and beta

Includes:

- Two (2) 500 ml bottle
- Two (2) 40 ml vials
- One (1) ice pack

Add-Ons Available:

- Radon
- TOC
- Iron Bacteria
- Tannins



Ultra Well Water Kit

Tests for:

- Everything included in the Deluxe kit
- Plus (18) PFAS contaminants including PFOA, PFOS and GenX

Includes:

- Four (4) zippered bags (for PFAS bottles)
- Two (2) 500 ml bottles
- Two (2) 250 ml bottles
- Two (2) 40 ml vials
- One (1) pair nitrile gloves
- Two (2) bags for ice

Add-Ons Available:

- Coliform Bacteria
- Radon
- TOC
- Iron Bacteria
- Tannins

All kits include instructions, submittal form and return packaging. Postage is not included.

City Water Kits



Basic City Water Kit

Tests for:

- (29) metals and minerals
- (7) other inorganic compounds
- (9) physical plus (3) disinfectants

Includes:

- One (1) 500 ml plastic bottle
- One (1) gel ice pack
- One (1) Free Chlorine test strip
- One (1) Total Chlorine test strip
- One (1) Chlorine Test Color Comparator

Add-Ons Available:

- Coliform Bacteria
- Radon
- TOC
- Gross Alpha Beta
- Iron Bacteria
- Tannins



Standard City Water Kit

Tests for:

- Everything included in the Basic kit
- Plus (53) volatile organic chemicals & (10) Disinfection Byproducts

Includes:

- One (1) 500 ml plastic bottle
- Two (2) 40 ml VOA vials
- One (1) 50 ml plastic beaker
- One (1) gel ice pack
- One (1) Free Chlorine test strip
- One (1) Total Chlorine test strip
- One (1) Chlorine Test Color Comparator

Add-Ons Available:

- Coliform Bacteria
- Radon
- TOC
- Gross Alpha Beta
- Iron Bacteria
- Tannins

All kits include instructions, submittal form and return packaging. Postage is not included.



Deluxe City Water Kit

Tests for:

- Everything included in the Standard kit
- Plus (5) more Disinfection Byproducts

Includes:

- One (1) 500 ml plastic bottle
- Two (2) 40 ml VOA vials
- Two (2) 60 ml glass amber vials
- One (1) 50 ml plastic beaker
- One (1) gel ice pack
- One (1) Free Chlorine test strip
- One (1) Total Chlorine test strip
- One (1) Chlorine Test Color Comparator

Add-Ons Available:

- Coliform Bacteria
- Radon
- TOC
- Gross Alpha Beta
- Iron Bacteria
- Tannins

Additional Kits Available:

Contact us for more information.

Water for Membrane Applications:

When considering membrane technology such as nanofiltration or reverse osmosis for water treatment, a water test is critical to determine which technology may be better suited or if additional pretreatment may be necessary.

PFAS List:

ResinTech will quantify the presence of up to 18 of the most common compounds, including PFOA, PFOS and Gen X.

PFOS & PFOA:

ResinTech will quantify the presence of the two most common compounds (PFOA and PFOS).

Custom Kits

If you know exactly what you're looking for, you can choose tests a la carte and ResinTech will create a custom kit to suit your specific needs.

All kits include instructions, submittal form and return packaging. Postage is not included.

Turnaround Times:

Most analysis is done within 5 business days, with the exception of tests that include radiologicals and iron or sulfate-reducing bacteria which usually can be reported within 10 business days.

Expedites:

Samples can be expedited based upon the volume of samples in the lab and the analysis requested. Additional charges do apply.

- 50% upcharge for 3 business days.
- 100% upcharge for 2 business days or less.

Who to Contact

If you have questions about results or what test should be ordered, bulk orders pricing etc., contact:

MARIANNE METZGER

LABORATORY SALES

PHONE [216.678.0185](tel:216.678.0185)

EMAIL mmetzger@resintech.com

Benefits of Buying in Bulk

We do the work. You take the credit!

The faster you identify what wrong with your customer's water, the faster you can recommend a solution. Imagine the customer impression you make when the packaging and documentation all carry your company logo. Having your own, branded kits on hand facilitates customer momentum through your sales funnel and helps close more sales. We're here to help with custom branded test kits, fast turnarounds, and detailed reporting.

Annual commitments of greater than fifty (50) kits per month receive free white labeling. Ask for details!



WATER SAMPLES MUST BE NON-HAZARDOUS

ResinTech lab services cannot accept solutions that are classified as Hazardous or contain high concentrations of solvents, acids, bases, radionuclides etc. Please call for confirmation if there are any questions.

Our laboratory services don't end at just water. We also offer ion exchange **resin analysis** from the most **basic physical tests** to **identifying process solutions and predicting operating costs**. Ask us about our other services.





ABOUT RESINTECH

ResinTech has been a global leader in the field of ion exchange for water purification since its founding in 1986. The company has since expanded to the manufacture of water purification cartridges and lab water systems; resin regeneration and wastewater treatment services; reverse osmosis membrane restoration; and provide world-class lab services for resin and water analysis.

RESINTECH WORLD HEADQUARTERS

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