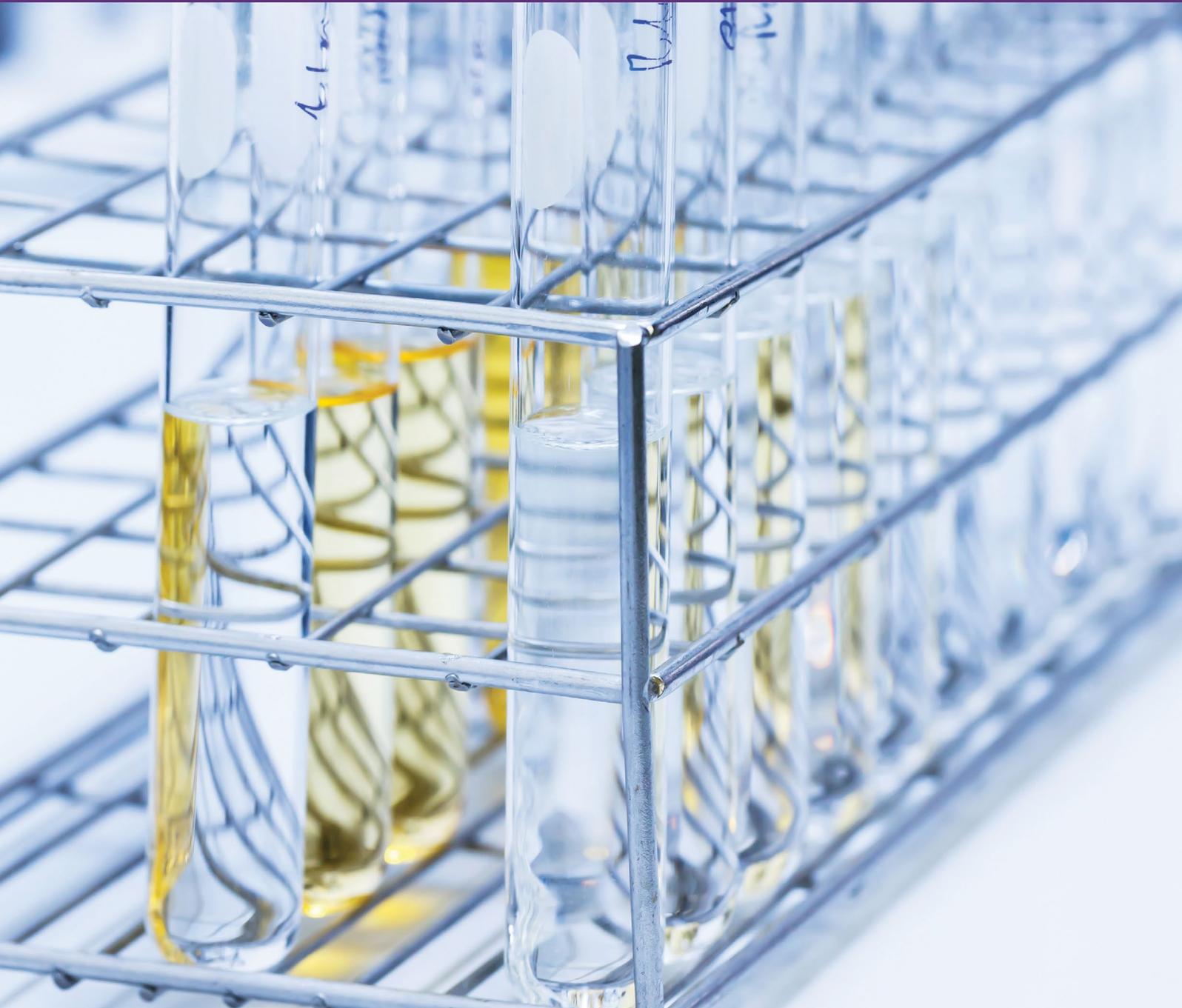




# Purified Water

Products intended for use in industrial or municipal settings where water quality parameters are being monitored continuously (by in-line, on-line, or at-line instrumentation), or by frequent and routine collection of samples for laboratory analysis.

Products in this section include calibration, system suitability, and conductivity solutions and kits for TOC, Conductivity, and Turbidity devices for ultra-pure water analysis including pharmaceutical, power generation, and semiconductor manufacturing. We also offer reagents and other instrument consumables such as replacement lamps.



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## Beckman Coulter\*

All of our Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under Waters ERA's ISO 17034 accreditation. CRMs for the PAT700 are formulated specifically for the unique technology inherent in that instrument and are packaged in ready-to-use RFID tagged bottles.

### PAT700

System Suitability	
Sets - USP / EP	Cat. #
<b>USP Bulk Water System Suitability Set</b>	18402
Includes (1) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 65 mL bottles.	

Calibration	
Kits	Cat. #
<b>Calibration Standards Kit</b>	19202
Includes (1) Blank, (1) 0.250 mg/L C as Sucrose, (1) 0.500 mg/L C NIST Sucrose, and (1) 0.750 mg/L C as Sucrose in 65 mL bottles.	

Conductivity	
Kits	Cat. #
<b>Conductivity Solution Kit</b>	02602
Includes (1) 100 µS/cm Potassium Chloride (KCl) Solution in a 65 mL bottle.	

Individual set/kit components and/or bulk sizes may be available for the TOC and Conductivity standards. Please contact your Waters ERA sales representative if you have questions about any products that are not listed in this publication.

All Sucrose, NaHCO<sub>3</sub>, and KHP standards are manufactured from NIST materials unless otherwise stated.

\* Beckman Coulter is transitioning away from the ANATEL brand; all future references will align with Beckman Coulter's unified product portfolio.

Validation	
Kits	Cat. #
<b>Validation Control Kit</b>	19222
Includes (1) Blank, and (1) 0.500 mg/L C as Sucrose in 65 mL bottles.	
<b>Validation Protocol Reagent Kit</b>	19232
Includes (14) Blanks, (5) Conductivity Solutions, (1) Validation Control Kit, (2) Calibration Standards Kit, (1) System Suitability Set, (1) Excursion with Validation Kit, (1) 0.250 mg/L C as Sucrose, (1) 0.750 mg/L C as Sucrose, (1) USP Reagent Water Rw, (1) 0.500 mg/L C USP 1,4-Benzoquinone, and (2) Excursion Bottles (all bottles are 65 mL). Does not include NIST Traceable Resistor.	

Consumables	
	Cat. #
<b>Replacement UV Lamp</b>	20037
<b>65 mL Pre-cleaned HDPE Bottles - Natural (case of 50)</b>	25056
Case of 50: 65 mL Low TOC HDPE bottles with septa cap and dust cover.	
<b>Pre-Cleaned Caps w/Septa (100/pack)</b>	25011

The following CRMs are used for calibration and validation of the A643 on-line TOC analyzer.

## A643

System Suitability	
Sets - USP / EP	Cat. #
<b>USP/EP Bulk Water System Suitability Set</b>	48400
Includes (2) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 65 mL bottles.	
Calibration	
Kits	Cat. #
<b>Calibration Standards Kit</b>	49200
Includes (2) Blanks, (1) 0.250 mg/L C as Sucrose, (1) 0.500 mg/L C as Sucrose, and (1) 0.750 mg/L C as Sucrose in 65 mL bottles.	
Conductivity	
Kits	Cat. #
<b>Conductivity Solution Kit</b>	02610
Includes (1) 100 µS/cm Potassium Chloride (KCl) Solution in a 65 mL bottle.	
Validation	
Kits	Cat. #
<b>Validation Control Kit</b>	49220
Includes (2) Blanks, and (1) 0.500 mg/L C as Sucrose in 65 mL bottles.	
<b>Validation Kit</b>	49210
Includes (2) Blanks, and (1) 0.250 mg/L C as Sucrose, (1) 0.500 mg/L C as Sucrose, (1) 0.750 mg/L C as Sucrose, (1) 100 µS/cm Conductivity Solution Kit, and (1) USP System Suitability Set in 65 mL bottles.	
Consumables	
	Cat. #
<b>Replacement UV Lamp</b>	20036A
<b>65 mL Pre-cleaned HDPE Bottles - Natural (case of 50)</b>	25056
Case of 50: 65 mL Low TOC HDPE bottles with septa cap and dust cover.	
<b>Pre-Cleaned Caps w/Septa (100/pack)</b>	25011

All Sucrose, NaHCO<sub>3</sub>, and KHP standards are manufactured from NIST materials unless otherwise stated.

\* Beckman Coulter is transitioning away from the ANATEL brand; all future references will align with Beckman Coulter's unified product portfolio.

The following CRMs are used for calibration and validation of the TOC600 TOC analyzer.

## TOC600

System Suitability	
Sets - USP / EP	Cat. #
<b>USP/EP Bulk Water System Suitability Set</b>	48036
Includes (1) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 125 mL bottles.	
Calibration	
Kits	Cat. #
<b>Calibration Standards Kit</b>	49201
Includes (1) Blank, (1) 0.250 mg/L C as Sucrose, (1) 0.500 mg/L C as Sucrose, and (1) 0.750 mg/L C as Sucrose in 125 mL bottles.	
Conductivity	
Kits	Cat. #
<b>Conductivity Solution Kit</b>	02601
Includes (1) 100 µS/cm Potassium Chloride (KCl) Solution in a 125 mL bottle.	
Validation	
Kits	Cat. #
<b>Validation Control Kit</b>	49221
Includes (1) Blank, and (1) 0.500 mg/L C as Sucrose in 125 mL bottles.	
<b>Validation Kit</b>	19231
Includes (3) TOC600 Calibration Kits, (1) TOC600 100 µS/cm Conductivity Solution Kit, (2) TOC600 Validation Control Kits, and (4) TOC600 USP System Suitability Sets (all bottles are 125 mL).	
Consumables	
	Cat. #
<b>Replacement UV Lamp</b>	20036A

The following CRMs are used for calibration and validation of the A-1000 TOC analyzer.

## A-1000

System Suitability	
Sets - USP / EP	Cat. #
<b>USP/EP Bulk Water System Suitability Set</b>	49030
Includes (1) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 1000 mL HDPE bottles.	

# Veolia Sievers

All of our Sievers Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under Waters ERA's ISO 17034 accreditation.

Contact Waters ERA at [era\\_info@waters.com](mailto:era_info@waters.com) (USA) or [ERA\\_Europe\\_Sales@waters.com](mailto:ERA_Europe_Sales@waters.com) (Europe) for availability of Sievers 800 and 400 consumables.

## Sievers 900, 5310 C, M9, and M5310 C

System Suitability	
Sets - HCl Preserved	Cat. #
<b>USP System Suitability Set - HCl Preserved</b>	18004H
Includes (1) Reagent Water (Rw), (1) 0.500 mg/L C USP Sucrose (Rs) and (1) 0.500 mg/L C USP 1,4-Benzoquinone (Rss) in 40 mL vials.	
Sets - USP / EP	Cat. #
<b>USP/EP Bulk Water System Suitability Set</b>	18000
Includes (1) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 40 mL vials. Equivalent to Sievers STD 31004-01	
Sets - USP	Cat. #
<b>USP Sterile Water System Suitability Set</b>	18061
Includes (1) Reagent Water Rw, (1) 8.0 mg/L C USP Sucrose, and (1) 8.0 mg/L USP 1,4-Benzoquinone in 40 mL vials.	
Sets - JP	Cat. #
<b>JP System Suitability Set</b>	18000J
Includes (1) Reagent Water, and (1) 0.500 mg/L C from Sodium Dodecylbenzene Sulfonate in 40 mL vials. <i>Equivalent to Sievers STD 90039-01</i>	

Consumables	
	Cat. #
<b>60 Micron In-Line Stainless Filter</b>	25035
<b>40 mL Ultra-Low TOC Vials, 80/case</b>	25025
<b>300 mL - Replacement Sievers Acid Cartridge*</b>	21012
<b>150 mL - Replacement Sievers Acid Cartridge*</b>	21011
<b>300 mL - Replacement Sievers Oxidizer Cartridge</b>	21008
<b>150 mL - Replacement Sievers Oxidizer Cartridge</b>	21007
<b>Replacement Pump Tubing</b>	20060
<b>Replacement UV Lamp</b>	20045
* Dangerous good. Requires special shipping.	



Learn more about  
Total Organic Carbon products

# Veolia Sievers

## Sievers 900, 5310 C, M9, and M5310 C

Calibration & Validation	
Kits	Cat. #
<b>Simple Precision &amp; Accuracy Set</b>	18009
Includes (1) Reagent Water (Rw) and (1) 0.500 mg/L C USP Sucrose (Rs) - HCl preserved in 40 mL vials	
<b>Single Point Verification Set</b>	19601
Includes (1) Blank, (1) 0.500 mg/L C as Sucrose, and (1) 0.500 mg/L IC as NaHCO <sub>3</sub> in 40 mL vials.	
<b>Linearity Set</b>	19515
Includes (1) Blank, (1) 0.250 mg/L C as Sucrose, (1) 0.500 mg/L C as Sucrose and (1) 0.750 mg/L C as Sucrose in 40 mL vials. <i>Equivalent to Sievers STD 31012-01</i>	
<b>Calibration &amp; Verification Set</b>	19600
Includes (2) Blanks, (2) 1.0 mg/L IC as NaHCO <sub>3</sub> , (1) 1.0 mg/L C as KHP, and (1) 1.0 mg/L C as Sucrose in 40 mL vials.	
<b>Multi-Point Calibration Set</b>	19610
Includes (1) Blank, (1) each of 1.0, 5.0, 10.0, 25.0 and 50.0 mg/L C as KHP, and (1) each of 1.0, 5.0, 10.0, 25.0 and 50.0 mg/L IC as NaHCO <sub>3</sub> in 40 mL vials. <i>Equivalent to Sievers STD 90000-01</i>	
<b>Autoreagents Calibration Set</b>	19611
Includes (1) Blank, (1) 25.0 mg/L C as KHP, (1) 25.0 mg/L IC as NaHCO <sub>3</sub> , and (1) 50.0 mg/L C from Nicotinamide in 40 mL vials. <i>Equivalent to Sievers STD 90036</i>	
<b>Autoreagents Calibration &amp; Verification Set</b>	19616
Includes (2) Blanks, (1) 25.0 mg/L C as KHP, (1) 25.0 mg/L IC as NaHCO <sub>3</sub> , (1) 50.0 mg/L C from Nicotinamide, (1) 25.0 mg/L C as Sucrose, (1) 50.0 mg/L C as Sucrose, and (1) 50.0 mg/L IC NaHCO <sub>3</sub> in 40 mL vials.	
<b>Specificity Verification Set</b>	19615
Includes (1) Blank, (1) 0.500 mg/L C from Methanol, (1) 0.500 mg/L C from Nicotinamide, and (1) 0.500 mg/L C from KHP in 40 mL vials.	
<b>Validation Set with Calibration &amp; Verification</b>	19617
Includes (28) 40 mL vials, (2) Blanks, (2) 1.0 mg/L C as KHP, (2) 1.0 mg/L IC NaHCO <sub>3</sub> ; (1) Blank, (1) 0.500 mg/L C as Sucrose, (1) 0.500 mg/L IC NaHCO <sub>3</sub> ; (2) Reagent Water Rw, (2) 0.500 mg/L C from USP Sucrose Rs and (2) 0.500 mg/L C from USP 1,4-Benzoquinone Rss; (1) Blank, (1) 0.250 mg/L C as Sucrose, (1) 0.500 mg/L C as Sucrose, (1) 0.750 mg/L C as Sucrose; (1) Reagent Water, (1) 0.500 mg/L C from USP Sucrose; (1) Blank; (1) 0.500 mg/L C from Methanol; (1) 0.500 mg/L C from Nicotinamide; (1) 0.500 mg/L C from as KHP; (1) Reagent Water Rw; (1) 0.500 mg/L C from USP Sucrose Rs; and (1) 0.500 mg/L C from USP 1,4-Benzoquinone Rss.	
<b>Single Point Calibration Kit</b>	19620
Includes (1) Blank, and (1) 1.0 mg/L IC as NaHCO <sub>3</sub> , (1) 1.0 mg/L C as KHP in 40 mL vials. <i>Equivalent to Sievers STD 90001-01</i>	

Individual set/kit components and/or bulk sizes may be available for the TOC and Conductivity standards. Please contact your Waters ERA sales representative if you have questions about any products that are not listed in this publication.

## Sievers 500 RL

The following CRMs are designed to use on Sievers 500 RL TOC instruments for calibration, validation, and to satisfy regulatory requirements.

Contact Waters ERA at [era\\_info@waters.com](mailto:era_info@waters.com) (USA) or [ERA\\_Europe\\_Sales@waters.com](mailto:ERA_Europe_Sales@waters.com) (Europe) for availability of Sievers 800 and 400 consumables.

System Suitability	
Sets - USP / EP	Cat. #
<b>USP/EP Bulk Water System Suitability Set</b>	15105
Includes (2) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 40 mL vials. <i>Equivalent to Sievers STD 74403</i>	
Sets - USP	Cat. #
<b>USP Sterile Water System Suitability Set</b>	18061
Includes (1) Reagent Water Rw, (1) 8.0 mg/L C USP Sucrose Rs, and (1) 8.0 mg/L USP 1,4-Benzoquinone Rss in 40 mL vials.	
Sets - JP	Cat. #
<b>JP System Suitability Set</b>	18000J
Includes (1) Reagent Water, and (1) 0.500 mg/L C from Sodium Dodecylbenzene Sulfonate in 40 mL vials. <i>Equivalent to Sievers STD 90039-01</i>	
Consumables	
	Cat. #
<b>Replacement UV Lamp</b>	20045
<b>40 mL Ultra-Low TOC Vials, 80/case</b>	25025
<b>60 Micron In-Line Stainless Filter</b>	25035

All Sucrose, NaHCO<sub>3</sub>, and KHP standards are manufactured from NIST materials unless otherwise stated.

## Sievers 500 RL (continued)

### Calibration & Validation RL (Standard IOS) Single-Use CRMs

Kits	Cat. #
<b>Single-Point Calibration Set</b>	15100
Includes (2) Blanks, (1) 1.5 mg/L C as KHP in 40 mL glass vials, and (1) 25.0 µS/cm Conductivity standard in 30 mL PPCO vial. <i>Equivalent to Sievers STD 74401</i>	
<b>Single-Point Calibration/Verification Kit</b>	15101
Includes (2) Blanks, (1) 1.5 mg/L C as KHP in 40 mL glass vials, (1) 25.0 µS/cm Conductivity standard in 30 mL PPCO vial, (1) Verification Blank, (1) 0.500 mg/L C as Sucrose in 40 mL glass vials, and (1) 25.0 µS/cm Conductivity standard in 30 mL PPCO vial.	
<b>Accuracy/Precision/Verification Set</b>	15104
Includes (1) Verification Blank, (1) 0.500 mg/L C as Sucrose in 40 mL glass vials, and (1) 25.0 µS/cm Conductivity standard in 30 mL PPCO vial. <i>Equivalent to Sievers STD 74402</i>	
<b>Linearity Set</b>	15106
Includes (1) Linearity Blank, (1) each 0.250 mg/L, 0.500 mg/L, and 0.750 mg/L C as KHP in 40 mL glass vials. <i>Equivalent to Sievers STD 74406</i>	
<b>Single-Point Calibration Set - TOC Only</b>	15109
Includes (2) Calibration Blanks and (1) 1.5 mg/L C as KHP in 40 mL glass vials. <i>Equivalent to Sievers STD 74405</i>	
<b>Accuracy/Precision/Verification Set - TOC Only</b>	15110
Includes (1) Verification Blank and (1) 0.500 mg/L C as Sucrose in 40 mL glass vials. Conductivity standard is not included in this set. <i>Equivalent to Sievers STD 74407</i>	
<b>Single-Point Calibration/Verification Set - TOC Only</b>	15111
Includes (2) Blanks, (1) 1.5 mg/L C as KHP, (1) Verification Blank, and (1) 0.500 mg/L C as Sucrose in 40 mL glass vials. Conductivity standards are not included in this set.	

All Sucrose, NaHCO<sub>3</sub>, and KHP standards are manufactured from NIST materials unless otherwise stated.

## Analytik Jena

All of our Analytik Jena Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under Waters ERA's ISO 17034 accreditation.

**The following CRMs are designed to use on Analytik Jena TOC instruments for calibration, validation, and to satisfy regulatory requirements.**

System Suitability	
Sets - HCl Preserved	Cat. #
<b>USP System Suitability Set - HCl Preserved</b>	18004H
Includes (1) Reagent Water (Rw), (1) 0.500 mg/L C USP Sucrose (Rs) and (1) 0.500 mg/L C USP 1,4-Benzoquinone (Rss) in 40 mL vials.	
Sets - USP/EP	Cat. #
<b>USP/EP Bulk Water System Suitability Set</b>	18000
Includes (1) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 40 mL vials. For use with AJ multi N/C pharma or UV HS and IL500.	
Sets - USP	Cat. #
<b>USP Sterile Water System Suitability Set</b>	18061
Includes (1) Reagent Water Rw, (1) 8.0 mg/L C USP Sucrose Rs, and (1) 8.0 mg/L USP 1,4-Benzoquinone Rss in 40 mL vials.	
Sets - JP	Cat. #
<b>JP System Suitability Set</b>	18000J
Includes (1) Reagent Water, and (1) 0.500 mg/L C from Sodium Dodecylbenzene Sulfonate in 40 mL vials.	
Calibration & Validation	
Kits	Cat. #
<b>Simple Precision &amp; Accuracy Set</b>	18009
Includes (1) Reagent Water (Rw) and (1) 0.500 mg/L C USP Sucrose (Rs) - HCl preserved in 40 mL vials.	
<b>Single Point Verification Set</b>	19601
Includes (1) Blank, (1) 0.500 mg/L C as Sucrose, and (1) 0.500 mg/L IC as NaHCO <sub>3</sub> in 40 mL vials.	
<b>Cleaning Validation Kit</b>	19900
Includes (1) Calibration Blank, (1) each 0.250 mg/L, 0.500 mg/L, 0.750 mg/L, and 1.0 mg/L C as Sucrose in 40 mL vials.	
<b>Full TOC Calibration Kit</b>	19970
Includes (1) Calibration Blank, (1) each 1.0 mg/L, 2.5 mg/L, 5.0 mg/L, 10.0 mg/L, 25.0 mg/L, 50.0 mg/L, and 100.0 mg/L C as KHP in 250 mL amber glass bottles.	

Individual set/kit components and/or bulk sizes may be available for the TOC and Conductivity standards. Please contact your Waters ERA sales representative if you have questions about any products that are not listed in this publication.

# Xylem OI Analytical

The Certified Reference Materials (CRMs) listed below are commonly purchased for use with OI Analytical TOC instruments, including the very popular Aurora® model. All Waters ERA Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under Waters ERA's ISO 17034 accreditation.

The following CRMs are designed to use on OI Analytical TOC instruments for calibration, validation, and to satisfy regulatory requirements.

System Suitability		Calibration & Validation	
Sets - HCl Preserved	Cat. #	Sets	Cat. #
<b>USP System Suitability Set - HCl Preserved</b>	18004H	<b>Simple Precision &amp; Accuracy Set</b>	18009
Includes (1) Reagent Water (Rw), (1) 0.500 mg/L C USP Sucrose (Rs) and (1) 0.500 mg/L C USP 1,4-Benzoquinone (Rss) in 40 mL vials.		Includes (1) Reagent Water (Rw) and (1) 0.500 mg/L C USP Sucrose (Rs) - HCl preserved in 40 mL vials.	
Sets - USP/EP	Cat. #	Single Point Verification Set	19601
<b>USP/EP Bulk Water System Suitability Set</b>	18000	Includes (1) Blank, (1) 0.500 mg/L C as Sucrose, and (1) 0.500 mg/L IC as NaHCO <sub>3</sub> in 40 mL vials.	
Includes (1) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 40 mL vials. For use with AJ multi N/C pharma or UV HS and IL500.		Validation Set - Aurora*	19007
Sets - USP	Cat. #	Includes (6) Water Blanks, (1) 0.500 mg/L C as KHP, (3) 1.0 mg/L C as KHP, (1) 5.0 mg/L C as KHP, (1) 10.0 mg/L C as KHP, (1) 25.0 mg/L C as KHP, (1) 5.0 mg/L C as KHP/50.0 mg/L IC as NaHCO <sub>3</sub> , (4) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L C USP 1,4-Benzoquinone in 40 mL vials.	
<b>USP Sterile Water System Suitability Set</b>	18061	Consumables	
Includes (1) Reagent Water Rw, (1) 8.0 mg/L C USP Sucrose Rs, and (1) 8.0 mg/L USP 1,4-Benzoquinone Rss in 40 mL vials.			Cat. #
Sets - JP	Cat. #	<b>Phosphoric Acid Reagent (1 Liter)*</b>	21016
<b>JP System Suitability Set</b>	18000J	<b>Persulfate Oxidizer Reagent (1 Liter)*</b>	21017
Includes (1) Reagent Water, and (1) 0.500 mg/L C from Sodium Dodecylbenzene Sulfonate in 40 mL vials.		* Dangerous good. Requires special shipping.	

All Sucrose, NaHCO<sub>3</sub>, and KHP standards are manufactured from NIST materials unless otherwise stated.

Individual set/kit components and/or bulk sizes may be available for the TOC and Conductivity standards. Please contact your Waters ERA sales representative if you have questions about any products that are not listed in this publication.

\* Aurora is a registered trademark of Xylem, Incorporated.

# Ultrapure Water Standards & Consumables

Ensure reliable ultrapure water analyses.

From Your Trusted TOC Partner.

In industries where product integrity and process reliability are paramount, ultrapure water is not just a requirement, it's a foundation. Pharmaceutical, biopharmaceutical, and semiconductor operations demand the highest standards of water purity to meet stringent regulatory and manufacturing specifications. Turbidity and Total Organic Carbon (TOC) are two of the most critical indicators of water quality.



**LEARN MORE AT** [eraqc.com/purifiedwater-products](https://eraqc.com/purifiedwater-products)



# Shimadzu

Certified Reference Materials (CRMs) listed are commonly purchased for use with Shimadzu TOC instruments. **Please specify at time of order whether you have a chemical or combustion Shimadzu TOC.** All of our Shimadzu Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under Waters ERA's ISO 17034 accreditation.

The following CRMs are designed to use on Shimadzu TOC instruments for calibration, validation, and to satisfy regulatory requirements.

System Suitability	
Sets - HCl Preserved	Cat. #
<b>USP System Suitability Set - HCl Preserved</b>	18004H
Includes (1) Reagent Water (Rw), (1) 0.500 mg/L C USP Sucrose (Rs) and (1) 0.500 mg/L C USP 1,4-Benzoquinone (Rss) in 40 mL vials.	
Sets - USP/EP	Cat. #
<b>USP/EP Bulk Water System Suitability Set</b>	18000
Includes (1) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 40 mL vials.	
Sets - USP	Cat. #
<b>USP Sterile Water System Suitability Set</b>	18061
Includes (1) Reagent Water Rw, (1) 8.0 mg/L C USP Sucrose Rs, and (1) 8.0 mg/L USP 1,4-Benzoquinone Rss in 40 mL vials.	
Sets - JP	Cat. #
<b>JP System Suitability Set</b>	18000J
Includes (1) Reagent Water, and (1) 0.500 mg/L C from Sodium Dodecylbenzene Sulfonate in 40 mL vials.	

All Sucrose, NaHCO<sub>3</sub>, and KHP standards are manufactured from NIST materials unless otherwise stated.

Individual set/kit components and/or bulk sizes may be available for the TOC and Conductivity standards. Please contact your Waters ERA sales representative if you have questions about any products that are not listed in this publication.

Calibration & Validation	
Kits/Sets	Cat. #
<b>Simple Precision &amp; Accuracy Set</b>	18009
Includes (1) Reagent Water (Rw) and (1) 0.500 mg/L C USP Sucrose (Rs) - HCl preserved in 40 mL vials.	
<b>Single Point Verification Set</b>	19601
Includes (1) Blank, (1) 0.500 mg/L C as Sucrose, and (1) 0.500 mg/L IC as NaHCO <sub>3</sub> in 40 mL vials.	
<b>TOC-V and TOC-L Validation Kit</b>	11002
Includes (1) Water Blank, and (2) 100.0 mg/L C as KHP in 125 mL amber glass bottles.	
<b>TOC-V and TOC-L HS Validation Kit</b>	11003
Includes (1) Water Blank, and (2) 10.0 mg/L C as KHP in 125 mL amber glass bottles.	
<b>TOC-V and TOC-L Multi Calibration Kit</b>	11005
Includes (2) Calibration Blanks, (2) each 0.100 mg/L, 0.250 mg/L, 0.500 mg/L C as KHP, and (1) each 0.750 mg/L and 1.0 mg/L C as KHP in 40 mL vials.	

Consumables	
	Cat. #
<b>Phosphoric Acid Reagent (1 Liter)*</b>	21016
<b>Persulfate Oxidizer Reagent (1 Liter)*</b>	21017

\* Dangerous good. Requires special shipping.

# Teledyne Tekmar

All of our Teledyne Tekmar Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under Waters ERA's ISO 17034 accreditation.

The following CRMs are designed to use on Teledyne Tekmar TOC instruments for calibration, validation, and to satisfy regulatory requirements.

## System Suitability

Sets - HCl Preserved	Cat. #
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<b>USP System Suitability Set - HCl Preserved</b>	18004H
---------------------------------------------------	--------

Includes (1) Reagent Water (Rw), (1) 0.500 mg/L C USP Sucrose (Rs) and (1) 0.500 mg/L C USP 1,4-Benzoquinone (Rss) in 40 mL vials.

Sets - USP/EP	Cat. #
---------------	--------

<b>USP/EP Bulk Water System Suitability Set</b>	18000
-------------------------------------------------	-------

Includes (1) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 40 mL vials.

Sets - USP	Cat. #
------------	--------

<b>USP Sterile Water System Suitability Set</b>	18061
-------------------------------------------------	-------

Includes (1) Reagent Water Rw, (1) 8.0 mg/L C USP Sucrose Rs, and (1) 8.0 mg/L USP 1,4-Benzoquinone Rss in 40 mL vials.

Sets - JP	Cat. #
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<b>JP System Suitability Set</b>	18000J
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Includes (1) Reagent Water, and (1) 0.500 mg/L C from Sodium Dodecylbenzene Sulfonate in 40 mL vials.

## Calibration & Validation

Kits	Cat. #
------	--------

<b>Simple Precision &amp; Accuracy Set</b>	18009
--------------------------------------------	-------

Includes (1) Reagent Water (Rw) and (1) 0.500 mg/L C USP Sucrose (Rs) - HCl preserved in 40 mL vials.

<b>Single Point Verification Set</b>	19601
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Includes (1) Blank, (1) 0.500 mg/L C as Sucrose, and (1) 0.500 mg/L IC as NaHCO<sub>3</sub> in 40 mL vials.

<b>Validation Set - Fusion*</b>	19004
---------------------------------	-------

(4) TOC Blank, (3) 1.0 mg C/L as KHP, (1) 10.0 mg C/L as KHP, (1) 25.0 mg IC/L NaHCO<sub>3</sub>, (1) Reagent Water Rw, (1) 0.500 mg/L C from USP Sucrose Rs, (1) 0.500 mg/L C from USP 1,4-Benzoquinone Rss, (1) Reagent Water Rw, (1) 8.0 mg/L C from USP Sucrose Rs, (1) 8.0 mg/L C from USP 1,4-Benzoquinone Rss, (1) 10.0 mg C/L as KHP - 125 mL, (1) 5.0 mg C/L as KHP - 125 mL

## Consumables

	Cat. #
--	--------

<b>Phosphoric Acid Reagent (1 Liter)*</b>	21016
-------------------------------------------	-------

<b>Persulfate Oxidizer Reagent (1 Liter)*</b>	21017
-----------------------------------------------	-------

\* Dangerous good. Requires special shipping.

\*Fusion is a registered trademark of Teledyne Technologies Incorporated.

# Other TOC Instruments

All of our Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under Waters ERA's ISO 17034 accreditation.

The following CRMs are designed to use on various brands of TOC instruments for calibration and to satisfy regulatory requirements.

If you do not see your brand of TOC instrument listed below, please contact us for availability.

## Swan Analytical

### System Suitability

Sets	Cat. #
------	--------

<b>Low-Level System Suitability Set</b>	18059
-----------------------------------------	-------

Includes (1) Reagent Water, (1) 0.300 mg/L C USP Sucrose, and (1) 0.300 mg/L C USP 1,4-Benzoquinone in 250 mL HDPE containers.

### Calibration & Other

Kits	Cat. #
------	--------

<b>Swan Calibration Kit</b>	10035S
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Includes (1) Calibration Blank and (1) 1.0 mg/L C as Sucrose in 250 mL HDPE containers.

<b>Swan Function Test Kit</b>	19700
-------------------------------	-------

Includes (1) 20.0 mg/L C Sucrose and (1) 20.0 mg/L C 1,4-Benzoquinone in 125 mL HDPE containers.

## MembraPure

### System Suitability

Sets - USP/EP	Cat. #
---------------	--------

<b>USP/EP Bulk Water System Suitability Set</b>	18140
-------------------------------------------------	-------

Includes (1) Reagent Water Rw, (1) 0.500 mg/L C USP Sucrose, and (1) 0.500 mg/L USP 1,4-Benzoquinone in 500 mL HDPE containers.

### Calibration - Individual Standards (500 mL HDPE Container)

	Cat. #
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<b>USP Reagent Water (Rw)</b>	18141
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<b>1.00 mg/L C as Sucrose</b>	11300
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All Sucrose, NaHCO<sub>3</sub>, and KHP standards are manufactured from NIST materials unless otherwise stated.

# Consumables

Ever wonder what the USP means by: "Use labware and containers that have been scrupulously cleaned of organic residues"?

Just like the USP, we demand scrupulously cleaned vials for our TOC standards. All of our vials, whether glass or polymer, represent the most consistently clean sample vials available anywhere. They are the perfect vial for your purified water (PW) or water for injection (WFI) sample analysis.

We offer consumable products for various TOC instruments as detailed below.

Vials and Bottles	
	Cat. #
40 mL Ultra-Low TOC Glass Vials (80/case)	25025
60 mL Low TOC HDPE Bottle - Natural (50/case)	25056

UV Lamps - Replacement UV Lamps for Beckman Coulter and Sievers models	
	Cat. #
A643/TOC600	20036A
PAT700	20037
Sievers 400/800	20040
Sievers 500/900	20045

Reagent Cartridges for Sievers	
	Cat. #
300 mL - Replacement Sievers Acid Cartridge*	21012
150 mL - Replacement Sievers Acid Cartridge*	21011
300 mL - Replacement Sievers Oxidizer Cartridge	21008
150 mL - Replacement Sievers Oxidizer Cartridge	21007

\* Dangerous good. Requires special shipping.

Reagents	
	Cat. #
Phosphoric Acid Reagent (1 Liter)*	21016
Persulfate Oxidizer Reagent (1 Liter)*	21017

\* Dangerous good. Requires special shipping.

Tubing - Replacement Pump Tubing for Sievers models	
	Cat. #
Sievers 900	20060
Sievers 800	20050
Sievers 400	20055

Filters	
	Cat. #
60 Micron In-Line Stainless Filter	25035

United States Pharmacopeia Monographs, Chapter <643> - Total Organic Carbon.



Learn more about Consumables

# Cleaning Validation

Waters ERA is the premier manufacturer of specialty cleaning validation products – coupons, certified clean sample vials and swabs for swab recovery studies as well as kits that can be customized to suit your laboratory, analyst and validation needs.

## Sampling Kit with Vial and Swab

	Cat. #
Vial and Swab Sampling Kit - Large	CV10005TX
Includes (160) certified clean swabs and (80) certified clean vials.	

## Swabbing Templates

Pre-cleaned Teflon® square swabbing templates are a simple way to ensure accuracy and precision in your cleaning validation sampling. Each pack comes with a Certificate of Analysis for residual HPLC and TOC levels. Swabbing templates can be custom made to your needs. Stainless steel templates are available upon request. Call for pricing, availability, and custom sizing.

	Cat. #
25 cm <sup>2</sup> (25/pack)	30029
100 cm <sup>2</sup> (25/pack)	30032

## Swabs

Large polyester swabs with snap-off head for ultra-low interference levels.

	Cat. #
TOC Swabs (< 50.0 ppb TOC)	30033TX
Includes (20) swabs (1 total bag)	
TOC Swabs (< 50.0 ppb TOC)	30031TX
Includes (100) swabs (20/bag, 5 total bags)	

## Custom Coupons

Waters ERA can accommodate your custom requests for coupons of just about any size, shape or material. Please use the general catalog numbers below and provide the information at the bottom to your customer service representative.

	Cat. #
Polymer	30024
Metal	30025
Glass	30027

Call 800.372.0122 or 303.431.8454 for a quote on your custom coupon needs in the U.S. contact your sales partner or e-mail your inquiry to [ERA\\_Europe\\_Sales@waters.com](mailto:ERA_Europe_Sales@waters.com) in Ireland. Please have the following information available:

Material	Metal, plastic, rubber, or glass type (stainless steel, polyethylene, etc.).
Grade	Specific grade of material (i.e., 316 stainless, HDPE or borosilicate glass).
Finish	Arguably the most important factor for metals. The finish refers to the surface roughness and is generally stated in units of "Ra". It is most often measured using a profilometer.
Coating	Some materials can be coated to offer desirable surface properties.
Etching	Some materials can be etched with serial numbers, swabbing areas or other information.
Dimensions	Size and shape of the coupon.
Quantity	The quantity of coupons needed.



Learn more about  
Cleaning Validation products

# Reference Standards

All of Waters ERA's Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under Waters ERA's ISO 17034 accreditation.

## Inorganic Carbon

Inorganic Carbon (IC) is derived from non-living sources and it exists in pharmaceutical waters as carbonate, bicarbonate, and dissolved carbon dioxide (CO<sub>2</sub>). Whether your instrument quantifies IC as part of a differential calculation or removes it as part of a "non-purgeable" method of TOC determination, your instrument's ability to remove and/or measure IC must be validated. Below are the most commonly requested IC concentrations for calibration and validation of TOC instrumentation.

Bulk sizes may be available for the Inorganic Carbon standards. Please contact your sales representative if you have questions about any products that are not listed in this publication.

### Individual CRMs for Inorganic Carbon

	Volume	Cat. #
0.5 mg/L IC from NaHCO <sub>3</sub>	40 mL	15990
1.0 mg/L IC from NaHCO <sub>3</sub>	40 mL	16000
5.0 mg/L IC from NaHCO <sub>3</sub>	40 mL	16300
10.0 mg/L IC from NaHCO <sub>3</sub>	40 mL	16600
25.0 mg/L IC from NaHCO <sub>3</sub>	40 mL	16900
50.0 mg/L IC from NaHCO <sub>3</sub>	40 mL	17130

## Turbidity

Turbidity products are designed specifically for pharmaceutical turbidimetric validation, calibration and monitoring applications including performing particle content/concentration testing, monitoring for fermentation progress, or filter break monitoring.

Custom turbidity products are available if you need a standard. Please contact us to inquire about custom turbidity reference materials.

## High-Purity Water

Certified Low-TOC Water suitable for use with your TOC or liquid chromatography system. All of our waters are prepared with the highest level of care throughout the Ion-Exchange-Filtration-RO-UV purification process. Our water must pass a rigorous testing scheme and we guarantee the analysis of each bottle as well as your satisfaction.

### USP Purified - Certified Low-TOC Water

	Cat. #
USP Purified Low-TOC Water - 4 Liter	PW10000
USP Purified Low-TOC Water - 4 x 4 Liter Case	PW10005

## pH Buffers

Three color-coded pH Buffers that are prepared under our ISO 17034 accreditation. The buffers are mercury free, guaranteed stable for one year, and they are analytically traceable to NIST Standard Reference Materials (SRMs). Waters ERA pH Buffers are designed for routine calibration and/or verification of pH meters and they are supplied with a full certificate of analysis.

### pH Buffer Products in 500 mL HDPE Containers

	Cat. #
pH 4 (Red) 1 Bottle	127
pH 4 (Red) Case of 6 Bottles	128
pH 7 (Yellow) 1 Bottle	131
pH 7 (Yellow) Case of 6 Bottles	132
pH 10 (Blue) 1 Bottle	135
pH 10 (Blue) Case of 6 Bottles	136
(2) Each of pH 4, pH 7, and pH 10	141

For other pH buffers please contact us at 800.372.0122 and inquire about our custom pH buffers or our line of environmental reagents.

All Sucrose, NaHCO<sub>3</sub>, and KHP standards are manufactured from NIST materials unless otherwise stated.

# Conductivity

Conductivity solutions and kits that support accurate, verifiable, and approved approaches to validating/verifying your conductivity sensors. Whether you are validating detection limits, determining accuracy and precision, or constructing a low-level linearity curve, Waters ERA has the conductivity products and services to support your efforts.

All Waters ERA Conductivity standards are manufactured in a water matrix, and are scrutinized under Waters ERA's ISO 17034 accreditation.

## Low-Level Conductivity (in HDPE bottles)

Our Low-Level conductivity is an excellent verification solution once you have calibrated your system using our ASTM Solution D.

	Cat. #
25 $\mu\text{S}/\text{cm}$ (500 mL)	01300
25 $\mu\text{S}/\text{cm}$ (125 mL)	01400

## Mid-Level Conductivity (in HDPE bottles)

Manufactured using NIST traceable materials and certified. This potassium chloride (KCl) solution is an excellent calibration or calibration verification solution. This solution is certified by analysis and it does not require the use of a reference blank for accurate calibration or validation.

	Cat. #
100 $\mu\text{S}/\text{cm}$ (1 Liter)	02400
100 $\mu\text{S}/\text{cm}$ in (500 mL)	02500
100 $\mu\text{S}/\text{cm}$ (125 mL)	02600

## Mid-Level Conductivity ASTM Solution D (in HDPE bottles)

ASTM Solution D is the lowest level solution that can be made following a NIST protocol for conductivity solution preparations. This standard makes an excellent calibration or verification solution together with our 25  $\mu\text{S}/\text{cm}$  solution. All Solution D products include an associated Reference Blank.

	Cat. #
Solution D Test Kit (500 mL)	01600
Solution D at 146.93 $\mu\text{S}/\text{cm}$ (500 mL)	01800
Solution D at 146.93 $\mu\text{S}/\text{cm}$ (125 mL)	01900

Kit includes (1) Solution D, (1) Reference Blank, and (10) pre-cleaned 125 mL wide-mouth HDPE containers.

## High-Level Conductivity (in HDPE bottles)

ASTM Solutions C are prepared prescriptively from KCl and offer superior accuracy at mid- to high-levels for conductivity sensor validation and verification.

	Cat. #
ASTM Solution C at 1408.8 $\mu\text{S}/\text{cm}$ (125 mL)	01610
ASTM Solution C at 1408.8 $\mu\text{S}/\text{cm}$ (1 Liter)	01620
1000 $\mu\text{S}/\text{cm}$ (125 mL)	01410
1000 $\mu\text{S}/\text{cm}$ (1 Liter)	01430
10,000 $\mu\text{S}/\text{cm}$ (125 mL)	01630
10,000 $\mu\text{S}/\text{cm}$ (1 Liter)	01640
100,000 $\mu\text{S}/\text{cm}$ (125 mL)	01650
100,000 $\mu\text{S}/\text{cm}$ (500 mL)	01655



Learn more about  
Conductivity products

# Waters ERA global distributors and sales partners

Waters ERA currently serves customers in more than 80 countries through an extensive network of knowledgeable distributors and sales partners. Please visit [eraqc.com/globalpartners](http://eraqc.com/globalpartners) to find the name of an authorized distributor in your area or country. Click on the Global Sales Partner link in the About Waters ERA pull down menu. You may also request distributor information by sending an e-mail to [ERA\\_Europe\\_Sales@waters.com](mailto:ERA_Europe_Sales@waters.com) in Europe or [era\\_info@waters.com](mailto:era_info@waters.com) in the U.S. and the rest of the world. See our website for all of our best-in-class partners across the world.

## Waters ERA Subscription Services

We can setup subscription orders to meet your specific needs if your internal quality control program requires regularly scheduled analyses for compliance monitoring or routine instrument maintenance. Subscriptions eliminate the need to place recurring orders. Products are delivered on a regular schedule and they will always be available when you need them. Some of the benefits include:

- Subscriptions can be designed to match your specific needs (e.g., weekly, monthly, etc.)
- Billing occurs for each individual shipment regardless of how you normally pay for vendor supplied materials
- Changes can be made if necessary during the length of the subscription
- You will have the maximum amount of expiration period for your required reference materials
- Subscriptions can be designed for custom products
- Please contact Waters ERA to set up a subscription order or if you have any questions about these services.



# Glossary

## A - C

<b>A</b>	4-AAP	4 - Aminoantipyrine
	A2LA	American Association for Laboratory Accreditation
	AE	Air & emissions
<b>B</b>	BCH	Benzene hexachloride
	BOD	Biochemical oxygen demand
	BTEX	Benzene, toluene, ethylbenzene, and xylenes
<b>C</b>	CALA	Canadian Association for Laboratory Accreditation
	CFU	Colony-forming unit
	CLP	Contract laboratory program
	COD	Chemical oxygen demand
	CofA	Certificate of analysis
	CRDL	Contract required detection limit
	CRM	Certified reference material
	CVAFS	Cold vapor atomic fluorescence spectroscopy
	CVAA	Cold vapor atomic absorption
	CWA	Clean Water Act

## D - F

<b>D</b>	DBCP	Dibromochloropropane
	DI	Deionized
<b>E</b>	EDB	Ethylene dibromide also known as 1,2-Dibromoethane
	EDD	Electronic data deliverable
	ELAP	Environmental Laboratory Accreditation Program
	EPA	Environmental Protection Agency
	EPTIS	European Proficiency Testing Information System
	ERA	Environmental Resource Associates
<b>F</b>	FAQ	Frequently asked question
	FID	Flame ionization detector
	FoPT	Field of Proficiency Testing

## G - I

<b>G</b>	GC	Gas chromatography
<b>H</b>	HCH	Hexachlorocyclohexane
	HEM	Hexane extractable material
	HMX	Nitroamine high explosive
	HPC	Heterotrophic plate count
	HPLC	High performance liquid chromatography
<b>I</b>	IC	Ion chromatography
	ICP	Inductively coupled plasma
	IR	Infrared
	ISE	Ion selective electrode
	ISO	International Organization for Standardization

## L - N

<b>L</b>	LAS	Linear alkylbenzene sulphonates
	LIMS	Laboratory information management system
<b>M</b>	MBAS	Methylene blue active substances
	MCPA	2-methyl-4-chlorophenoxyacetic acid
	MCPP	Mecoprop (chlorophenoxy herbicide)
	MEK	Methyl ethyl ketone
	MF	Membrane filtration
	mg	Milligrams
	mg/dscm	Milligrams per dry standard cubic meter
	MIBK	Methyl isobutyl ketone
	MOE	Ministry of the Environment (Ontario)
	MPN	Most probable number
	MRAD	Multi-media radiochemistry
	MTBE	Methyl tert-butyl ether

<b>N</b>	NELAC	National Environmental Laboratory Accreditation Conference
	NELAP	National Environmental Laboratory Accreditation Program
	NIST	National Institute of Standards and Technology (U.S.)
	NPDES	National Pollutant Discharge Elimination System
	NQA	National Quality Assurance
	NTU	Nephelometric turbidity unit

## O - Q

<b>O</b>	OES	Optical emission spectrometry
<b>P</b>	PAH	Polycyclic aromatic hydrocarbons
	PC units	Platinum-cobalt
	PCB	Polychlorinated biphenyls
	pci/kg	Picocuries per kilogram
	PE	Performance evaluation
	PFAS	Per- and polyfluoroalkyl substances
	pg	Picogram
	PT	Proficiency test(ing)
	PUF	Polyurethane foam
<b>Q</b>	QC	Quality control
	QR	Quik Response

## R - T

<b>R</b>	RCRA	Resource Conservation and Recovery Act
	RDX	Research department explosive (an explosive nitroamine)
	RM	Reference material
	RTU	Ready-to-use
<b>S</b>	SCC	Standards Council of Canada
	SDWA	Safe Drinking Water Act
	SGTheM	Silica gel treated hexane extractable materials
	SI unit	International System of units
	SPE	Solid-phase extraction
	SU	Standard units
<b>T</b>	TCDD	Tetrachlorodibenzo-p-dioxin
	TCLP	Toxicity characteristic leaching procedure
	TCP	Trichloropropane
	TKN	Total Kjeldahl (kel'dahl) Nitrogen
	TNI	The NELAC Institute
	TOC	Total organic carbon
	TOX	Total organic halides
	TPH	Total petroleum hydrocarbons
	TSS	Total suspended solids

## U - Z

<b>U</b>	UCMR	Unregulated contaminant monitoring rule
	UKAS	United Kingdom Accreditation Service
	µmhos	Micromhos (measure of electrical conductivity of a solution)
	UPLC	Ultra performance liquid chromatography
<b>V</b>	VOA	Volatile organic analysis
	VOC	Volatile organic compounds
<b>W</b>	WP	Water pollution
	WS	Water supply
	WWTP	Wastewater treatment plant
<b>Z</b>	Z-score	Statistical measurement of a score's relationship to the mean in a group of scores

# 5 Easy Ways to Order

## 1. Online

[eraqc.com](http://eraqc.com)

## 2. Phone

800.372.0122  
303.431.8454

## 3. Fax

303.421.0159

## 4. Mail

ERA  
16341 Table Mountain Pkwy  
Golden, CO 80403

## 5. Email

[era\\_info@waters.com](mailto:era_info@waters.com) (US)  
[era\\_europe\\_sales@waters.com](mailto:era_europe_sales@waters.com) (Europe)

## Hours

6:00 am – 5:00 pm (Mountain Time) Mon–Fri

## Credit Cards

Waters ERA accepts MasterCard, VISA, American Express, and Discover.



## International

For international orders, please contact your authorized Waters ERA Sales Partner. For a complete list of Waters ERA Sales Partners, visit us online at [eraqc.com/globalpartners](http://eraqc.com/globalpartners).



Waters ERA products manufactured at the Golden, CO facility are accredited to ISO 17034, ISO 17025 and ISO 17043, as defined by the Scopes of Accreditation, by American Association of Laboratory Accreditation (A2LA) and the Golden, CO facility is registered to ISO 9001 by National Quality Assurance (NQA).

Waters ERA products manufactured at the Golden, CO facility are accredited to ISO 17034 and ISO 17043, as defined by the Scopes of Accreditation, by entidad mexicana de acreditación, a.c., (EMA) and may be referenced at [www.ema.org.mx](http://www.ema.org.mx).

Waters ERA products manufactured at the Wexford, Ireland facility are accredited to ISO 17034, as defined by the Schedules of Accreditation, by the Irish National Accreditation Board (INAB).

# Terms and Conditions

## Confirmation (U.S.)

All orders are confirmed to the purchasing contact as long as fax or email information is provided. Please review the confirmation immediately to ensure the accuracy of your order.

## Terms (U.S.)

Terms are net 30 days. Freight charges are prepaid and added to the invoice. A charge is added to each invoice per shipment to cover regulated materials packaging and handling.

For most current Terms and Conditions, please visit Waters Terms and Conditions.

## Fast Two-day Shipping (U.S.)

For quick and reliable delivery, all orders are shipped via two-day delivery service unless otherwise requested.

## International Terms

Orders for environmental products ship from the Waters ERA facility in Golden, Colorado. Orders from outside the United States must be pre-paid in U.S. dollars by either credit card or wire transfer. A bank wire transfer fee is assessed with all payments made through a wire transfer. Customer is responsible for all duties, taxes, and customs clearance.

## Safety

Waters ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of Waters ERA products rests entirely with the purchaser and user.

If you need a Safety Data Sheet (SDS) for any Waters ERA product, please visit [eraqc.com](http://eraqc.com) or call +1.303.431.8454.

## Return/Replacement Policy

Please check all orders immediately upon receipt for accuracy and to ensure that there is no damage. Waters ERA will immediately correct any problems that are reported within five working days of receipt.

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