



With over 50 years of market leadership, Waters® is committed to the development, production, and manufacture of the highest quality consumable products to solve our customers' most difficult challenges and enable your success. We are driven by our core mission: to develop enabling technologies that are the industry standard for performance, reproducibility, and quality.

ERA has been producing Certified Reference Materials (CRMs) for the Life Sciences industry since 2000 in the United States and since 2006 in the United Kingdom. Both manufacturing facilities maintain ISO Guide 34:2008 accreditations to ensure that you receive the highest quality products in accordance with globally recognized requirements for Certified Reference Materials. ERA also maintains other accreditations such as ISO 9001:2008; ISO Guide 17025:2005; and ISO Guide 17043. Very few manufacturers can match the same rigorous ISO quality programs that ERA has in place. ERA receives the independent oversight necessary to consistently produce the best products available to meet or exceed your laboratory's quality objectives.

To learn more about how ERA can help achieve your objectives for quality, variety, and reliability, visit www.eraqc.com.

Regards,

Mike Yelle

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ACCREDITED

ISO 9001

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### **ABOUT ERA**

ERA introduced its Life Science product line in 2000. Since that time, ERA has grown to become the premier manufacturer of Certified Reference Materials (CRMs) for TOC, and conductivity for ultra-pure water analysis including pharmaceutical water. We offer a comprehensive line of reference standards, reagents and sampling containers for ultra-pure water analysis in the pharmaceutical, biotechnology, medical device, semiconductor and other industry sectors.



Regardless of manufacturer, ERA is your source for independent standards that are designed specifically for the TOC instruments in your facility:

- ANATEL®
- Sievers®
- Analytik Jena
- OI Analytical<sup>®</sup>

- Shimadzu®
- Teledyne Tekmar®
- Thornton®
- Comet

- Swan
- Lighthouse
- MembraPure



Teledyne Tekmar Fusion



Sievers® Model 900

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### **ERA'S ACCREDITATIONS**

ERA customers recognize that the products and services we provide are among the very best in the world. Our certifications and accreditations are just one facet of what distinguishes ERA as an elite manufacturer of Certified Reference Materials (CRMs) for analytical laboratories globally. Few manufacturers can boast the same rigorous ISO quality programs ERA has in place.

ERA achieves registration or accreditation when an outside authority that has been qualified to review our processes and procedures evaluates us against an internationally developed set of strict requirements. These requirements span from making certain ERA maintains the proper physical facilities to evaluating the calculations used in our statistical analysis. The accreditations affirm our ability to provide customers with the highest quality products possible and allow for international acceptance of ERA products by laboratory accreditation bodies.

Our two facilities in the U.S. and UK are registered to ISO 9001:2008 and accredited to ISO Guide 34 and ISO 17025.

...an outside authority that has been qualified to review our processes and procedures evaluates us against an internationally developed set of strict requirements.

#### ISO 9001

ISO 9001 is a quality management standard that applies to all types of organizations regardless of size or function. This international standard helps both product and service oriented organizations achieve standards of quality that are recognized and respected throughout the world. This is accomplished mostly through quality management practices that extend into all areas of an organization.

ISO 9001 registered companies must have written procedures and training documentation in the areas of customer service, complaint handling, product design, purchasing, manufacturing, product evaluation, packaging and shipping. While it is not a requirement, included on our ISO 9001:2008 accreditation scope are Synthetic Reference Materials and Quality Control Standards.

While many companies view their ISO 9001 registration as the pinnacle of success in their pursuit of quality, it represents only the foundation for ERA.

ERA is certified by NQA in the United States and by LRQA in the United Kingdom.





### ISO GUIDE 34

Our ISO Guide 34:2008 accreditation is targeted specifically to Certified Reference Material (CRM) manufacturers. For a manufacturer to become ISO Guide 34 registered, the policies and processes employed to design, manufacture and certify reference materials must be validated and proven to be accurate and robust. For CRMs, ISO Guide 34 also requires that each Certificate of Analysis (CofA)

For a manufacturer to become ISO
Guide 34 registered, the policies
and processes employed to design,
manufacture and certify reference
materials must be validated and
proven to be accurate and robust.

include an uncertainty statement that reflects all sources of error involved in certifying the standard, including measurements and material purity; it must allow for complete traceability of the CRM. The ability to maintain an unbroken chain of calibrations, and also to control, calculate and report uncertainty correctly are what differentiates ERA's expertise from that of our competitors.





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### ISO 17025

ISO 17025:2005 certification, covering the competence of testing and calibration laboratories, ensures that a company's laboratory tests are performed correctly, and that attestations of product quality are appropriate and defensible. All aspects of raw material, in-process and final product verification are covered by this accreditation. It certifies the company's ability to demonstrate the robustness of their quality program through comprehensive and accurate product testing.



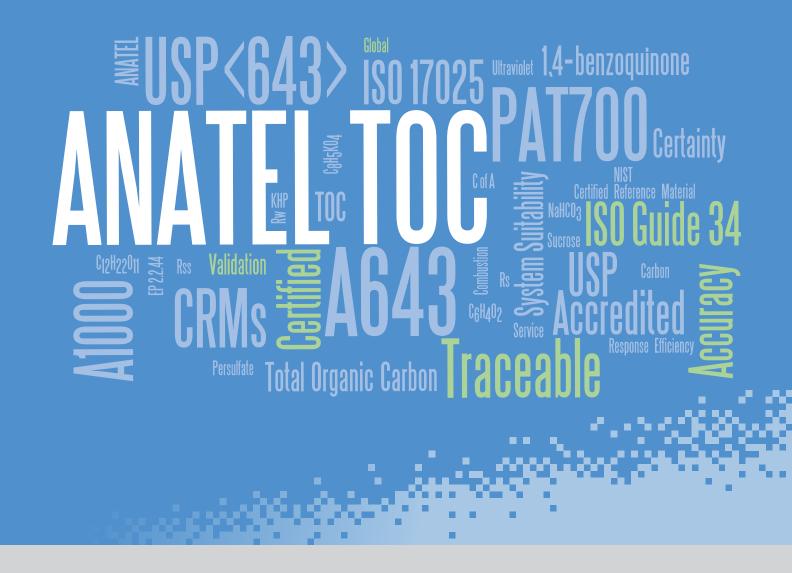


ISO GUIDE 17043

ISO Guide 17043 is designed specifically for Proficiency Testing (inter-laboratory comparison testing) providers. ISO 17043 specifies the essential activities that need to be evaluated when conducting inter-laboratory testing comparisons. ISO 17043 defines the criteria related to study design, sample manufacture and the ensuring of homogeneity and stability, which must be taken into account in the design and execution of proficiency testing schemes.



ERA's U.S. facility is accredited to ISO Guide 34, ISO 17025 and ISO 17043 by American Association of Laboratory Accreditation (A2LA) and registered to ISO 9001:2008 by National Quality Assurance (NQA). ERA's UK facility is accredited to ISO Guide 34 and ISO 17025 by United Kingdom Accreditation Society (UKAS) and registered to ISO 9001:2008 by Lloyd's Register Quality Assurance (LRQA).



# ANATEL TOC

ANATEL-brand Total Organic Carbon analyzers continue in popularity for ultrapure water monitoring applications. Combine your ANATEL technology with the finest reference standards available from ERA — ISO Guide 34 accredited to support the quality needs of our FDA-regulated customers.

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### ANATEL PAT700

All of our ANATEL Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation. CRMs for the ANATEL PAT700 are formulated specifically for the unique technology inherent in that instrument and are packaged in ready-to-use RFID tagged bottles.

System Suitability		
Sets – USP / EP	Cat. #	Availability
USP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 60 mL bottles.  Replaces ANATEL FG7018402	18402	Ships in 1 business day
Sets – JP	Cat. #	Availability
JP System Suitability Set Includes (1) Reagent Water Rw, and (1) 0.50 mg/L C Sodium Dodecylbenzene Sulfonate (SDBS) Rss in 60 mL bottles.	18402J	Ships in 5 business days
Sets – Low-Level System Suitability	Cat. #	Availability
Low-Level System Suitability Set Includes (1) Reagent Water, (1) 0.30 mg/L		Ships in 5

Calibration		
Kits	Cat. #	Availability
Calibration Standards Kit Includes (1) Blank, (1) 0.25 mg/L C NIST Sucrose, (1) 0.50 mg/L C NIST Sucrose, and (1) 0.75 mg/L C NIST Sucrose in 60 mL bottles. Replaces ANATEL FG7019202	19202	Ships in 1 business day
Kits – JP	Cat. #	Availability
JP Calibration Standards Kit #2 Includes (1) Calibration Blank, (1) 0.50 mg/L C from NIST KHP, (1) 0.75 mg/L C from NIST KHP, (1) 1.25 mg/L C from NIST KHP in 60 mL bottles.	19203J	Ships in 5 business days

Conductivity		
Kits	Cat. #	Availability
Conductivity Solution Kit Includes (1) 100 uS/cm Potassium Chloride (KCl) Solution in a 60 mL bottle. Replaces ANATEL FG7002602	02602	Ships in 1 business day

Validation		
Kits	Cat. #	Availability
Validation Control Kit Includes (1) Blank, and (1) 0.50 mg/L C NIST Sucrose in 60 mL bottles. Replaces ANATEL FG7019222	19222	Ships in 1 business day
JP Validation Control Kit #2 Includes (1) Blank, and (1) 0.75 mg/L C NIST KHP in 60 mL bottles.	19223J	Ships in 5 business days
Validation Protocol Reagent Kit Includes (14) Blanks, (5) Conductivity Solutions, (1) Validation Control Kit, (2) Calibration Standards Kit, (1) System Suitability Set, (1) Excursion with Validation Kit, (1) 0.25 mg/L C NIST Sucrose, (1) 0.75 mg/L C NIST Sucrose, (1) USP Reagent Water Rw, (1) 0.50mg/L C USP 1,4-Benzoquinone, and (2) Excursion Bottles (all bottles are 60 mL). Does not include NIST Traceable Resistor. Replaces ANATEL FG7019232	19232	Ships in 5 business days

Consumables		
	Cat. #	Availability
Replacement UV Lamp	20037	Ships in 1 business day
60 mL Low TOC HDPE Bottle — Natural (25/pack)	25031	Ships in 1 business day
Pre-Cleaned Caps w/Septa (100/pack)	25011	Ships in 5 business days

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



Anatel PAT700

### **ANATEL A643**

All of our ANATEL Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation. These manufacturing processes ensure that the results you receive from your TOC instrument reflect its true capabilities.

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

System Suitability		
Sets – USP / EP	Cat. #	Availability
USP Bulk Water System Suitability Set Includes (2) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 60 mL bottles.  Replaces ANATEL FG5017601	18400	Ships in 1 business day
Sets – Low-Level System Suitability	Cat. #	Availability
Low-Level System Suitability Set Includes (2) Reagent Water, (1) 0.30 mg/L C USP Sucrose, and (1) 0.30 mg/L C USP 1,4-Benzoquinone in 60 mL bottles.	18066	Ships in 5 business days

Calibration		
Kits	Cat. #	Availability
Calibration Standards Kit Includes (2) Blanks, (1) 0.25 mg/L C NIST Sucrose, (1) 0.50 mg/L C NIST Sucrose, and (1) 0.75 mg/L C NIST Sucrose in 60 mL bottles. Replaces ANATEL FG7017401	19200	Ships in 1 business day

Conductivity		
Kits	Cat. #	Availability
Conductivity Solution Kit Includes (1) 100 uS/cm Potassium Chloride (KCl) Solution in a 60 mL bottle. Replaces ANATEL FG5010401	02610	Ships in 1 business day



Validation		
Kits	Cat. #	Availability
Validation Control Kit Includes (2) Blanks, and (1) 0.50 mg/L C NIST Sucrose in 60 mL bottles. Replaces ANATEL FG5017501	19220	Ships in 1 business day
Validation Protocol Reagent Kit Includes (10) Blanks, (3) 0.25 mg/L C NIST Sucrose, (5) 0.50 mg/L C NIST Sucrose, (3) 0.75 mg/L C NIST Sucrose, (1) 100 uS/cm Conductivity Solution Kit, and (4) USP System Suitability Sets (all bottles are 60 mL). Replaces reference materials portion of ANATEL FG5017701. Lamp not included.	19230	Ships in 5 business days
Validation Kit Includes (2) Blanks, and (1) 0.25 mg/L C NIST Sucrose, (1) 0.50 mg/L C NIST Sucrose, (1) 0.750 mg/L C NIST Sucrose, (1) 100 uS/cm Conductivity Solution Kit, and (1) USP System Suitability Set in 60 mL bottles.	19210	Ships in 5 business days

Consumables		
	Cat. #	Availability
Replacement UV Lamp Replaces ANATEL FG6002601	20036A	Ships in 1 business day
60 mL Low TOC HDPE Bottle – Natural (25/pack)	25031	Ships in 1 business day
Pre-Cleaned Caps w/Septa (100/pack)	25011	Ships in 5 business days
Low TOC Sample Vial Kit 68 pre-cleaned 50 mL Low TOC vials with pre- cleaned septa and aluminum crimp cap. Use for grab samples to be analyzed on Anatel A643. Replaces ANATEL FG5014801	25045	Ships in 1 business day

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

### ANATEL TOC600

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

System Suitability		
Sets — USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 125 mL bottles.  Replaces ANATEL FG5018036	18036	Ships in 1 business day

Calibration		
Kits	Cat. #	Availability
Calibration Standards Kit Includes (1) Blank, (1) 0.25 mg/L C NIST Sucrose, (1) 0.50 mg/L C NIST Sucrose, and (1) 0.75 mg/L C NIST Sucrose in 125 mL bottles. Replaces ANATEL FG5019201	19201	Ships in 1 business day

Conductivity		
Kits	Cat. #	Availability
Conductivity Solution Kit Includes (1) 100 uS/cm Potassium Chloride (KCl) Solution in a 125 mL bottle. Replaces ANATEL FG5002601	02601	Ships in 1 business day

Validation		
Kits	Cat. #	Availability
Validation Control Kit Includes (1) Blank, and (1) 0.50 mg/L C NIST Sucrose in 125 mL bottles. Replaces ANATEL FG5019221	19221	Ships in 1 business day
Validation Protocol Reagent Kit Includes (3) TOC600 Calibration Kits, (1) TOC600 100 uS/cm Conductivity Solution Kit, (3) TOC600 Validation Control Kits, and (4) TOC600 USP System Suitability Sets (all bottles are 125 mL). Replaces ANATEL FG5019231	19231	Ships in 5 business days

Consumables		
	Cat. #	Availability
Replacement UV Lamp Replaces ANATEL FG6002601	20036A	Ships in 1 business day

### ANATEL A-1000

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

System Suitability		
Sets – USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 1000 mL HDPE bottles.	19030	Ships in 5 business days

Calibration Set		
Individual (all standards sold in 1000 mL HDPE Bottles)	Cat. #	Availability
Calibration Blank	10211	Ships in 5 business days
0.25 mg/L C NIST Sucrose	10511	Ships in 5 business days
0.50 mg/L C NIST Sucrose	10811	Ships in 5 business days
0.75 mg/L C NIST Sucrose	11111	Ships in 5 business days

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



# SIEVERS

ERA's Certified Reference Materials (CRMs) are the finest standards available for your GE Analytical Instruments' Sievers-brand Total Organic Carbon analyzers.

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### SIEVERS 900 & M9 SERIES

All of our Sievers' Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation.

The following CRMs are designed to use on Sievers 900 and Sievers M9 Series TOC instruments for calibration, validation, and to satisfy regulatory requirements.

System Suitability		
Sets — USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 40 mL vials. Replaces Sievers CSTD 31004-01	18000	Ships in 1 business day
Sets — USP	Cat. #	Availability
USP Sterile Water System Suitability Set 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.	18061	Ships in 5 business days
Sets – JP	Cat. #	Availability
JP System Suitability Set Includes (1) Reagent Water Rw, (1) 0.50 mg/L C from Sodium Dodecylbenzene Sulfonate Rss in 40 mL vials. Replaces Sievers CSTD 90039-01	18000J	Ships in 5 business days
Sets – Low-Level System Suitability	Cat. #	Availability
Low-Level System Suitability Set Includes (1) Reagent Water, (1) 0.30 mg/L C USP Sucrose, and (1) 0.30 mg/L C USP 1,4-Benzoquinone in 40 mL vials.	18040	Ships in 5 business days

Consumables		
	Cat. #	Availability
Replacement UV Lamp	20045	Ships in 1 business day
Replacement Pump Tubing	20060	Ships in 1 business day
Phosphoric Acid Reagent Cartridge – 150 mL*	21010	Ships in 5 business days
Phosphoric Acid Reagent Cartridge –300 mL*	21001	Ships in 5 business days
Persulfate Oxidizer Reagent Cartridge — 150 mL*	21015	Ships in 5 business days
Persulfate Oxidizer Reagent Cartridge — 300 mL*	21006	Ships in 5 business days
40 mL Ultra-Low TOC Vials	25025	Ships in 1 business day
60 Micron In-Line Stainless Filter	25035	Ships in 5 business days

<sup>\*</sup>Dangerous goods.

Kits	Cat. #	Availability
Robustness Verification Set Includes (1) Reagent Water Rw, (1) 0.50 mg/L C from USP Sucrose Rs and (1) 0.50 mg/L C from USP 1,4-Benzoquinone Rss preserved with acid in (3) vials.	18000R	Ships in 5 business days
Linearity Set Includes (1) Blank, (1) 0.25 mg/L C NIST Sucrose, (1) 0.50 mg/L C NIST Sucrose and (1) 0.75 mg/L C NIST Sucrose in 40 mL vials. Replaces CSTD 31012-01	19515	Ships in 5 business days
Calibration & Verification Set Includes (2) Blanks, (2) 1.0 mg/L IC NIST NaHCO <sub>3</sub> , (1) 1.0 mg/L C NIST KHP, and (1) 1.0 mg/L C NIST Sucrose in 40 mL vials. Replaces CSTD 90016-01	19600	Ships in 5 business days
Multi-Point Calibration Set Includes (1) Blank, (1) each of 1.0, 5.0, 10.0, 25.0 and 50.0 mg/L C NIST KHP, (1) each of 1.0, 5.0, 10.0, 25.0 and 50.0 mg/L IC NIST NaHCO <sub>3</sub> in 40 mL vials. Replaces CSTD 90000-01	19610	Ships in 5 business days
Autoreagents Calibration Set Includes (1) Blank, (1) 25.0 mg/L C NIST KHP, (1) 1.0 mg/L IC NIST NaHCO <sub>3</sub> , and (1) 50.0 mg/L C from Nicotinamide in 40 mL vials. Replaces CSTD 90036-01	19611	Ships in 5 business days
Autoreagents Calibration & Verification Set Includes (2) Blanks, (1) 25.0 mg/L C NIST KHP, (1) 1.0 mg/L IC NIST NaHCO <sub>3</sub> , and (1) 50.0 mg/L C from Nicotinamide, (1) 25.0 mg/L C NIST Sucrose, (1) 50.0 mg/L C NIST Sucrose and (1) 50 mg/L IC NaHCO <sub>3</sub> in 40 mL vials. Replaces CSTD 90028-01	19616	Ships in 5 business days
Specificity Verification Set Includes (1) Blank, (1) 0.50 mg/L C from Methanol, (1) 0.50 mg/L C from Nicotinamide and (1) 0.50 mg/L C from KHP in 40 mL vials.	19615	Ships in 5 business days
Validation Set with Calibration & Verification Includes (28) 40 mL vials, (2) Blank, (2) 1.0 mg/L C NIST KHP, (2) 1.0 mg/L IC NAHCO <sub>3</sub> ; (1) Blank, (1) 0.50 mg/L C NIST Sucrose, (1) 0.50 mg/L IC NAHCO <sub>3</sub> ; (2) Reagent Water Rw, (2) 0.50 mg/L C from USP Sucrose Rs and (2) 0.50 mg/L C from USP 1,4-Benzoquinone Rss; (1) Blank, (1) 0.25 mg/L C NIST Sucrose, (1) 0.50 mg/L C NIST Sucrose, (1) 0.75 mg/L C NIST Sucrose; (1) Reagent Water Rw, (1) 0.50 mg/L C from USP Sucrose Rs; (1) Blank; (1) 0.50 mg/L C from Methanol; (1) 0.50 mg/L C from NIST KHP; (1) Reagent Water Rw; (1) 0.50 mg/L C from USP Sucrose Rs; and (1) 0.50 mg/L C from USP 1,4-Benzoquinone Rss. Replaces Sievers CSTD90025	19617	Ships in 5 business days
Calibration Kit Includes (1) Blank, (1) 1.0 mg/L IC NIST NaHCO <sub>3</sub> , (1) 1.0 mg/L C NIST KHP in 40 mL vials. Replaces CSTD 90001-01	19620	Ships in 5 business day

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

you have questions about any products that are not listed in this publication.

### SIEVERS 500 RL

All of our Sievers' Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation.

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

System Suitability		
Sets – USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 40 mL vials.  Replaces Sievers CSTD 74403	15105	Ships in 1 business day
Sets – USP	Cat. #	Availability
USP Sterile Water System Suitability Set 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.	18061	Ships in 5 business days
Sets – JP	Cat. #	Availability
JP System Suitability Set Includes (1) Reagent Water Rw, (1) 0.50 mg/L C from Sodium Dodecylbenzene Sulfonate Rss in 40 mL vials. Replaces Sievers CSTD 90039-01	18000J	Ships in 5 business days
Sets – Low-Level System Suitability	Cat. #	Availability
Low-Level System Suitability Set Includes (1) Reagent Water, (1) 0.30 mg/L C USP Sucrose, and (1) 0.30 mg/L C USP 1,4-Benzoquinone in 40 mL vials.	18040	Ships in 5 business days

Consumables		
	Cat. #	Availability
Replacement UV Lamp	20045	Ships in 1 business day
40 mL Ultra-Low TOC vials	25025	Ships in 1 business day
60 Micron In-Line Stainless Filter	25035	Ships in 5 business days

A		
Calibration & Validation RL (Standard IOS) Single-Use CRMs		
Kits	Cat. #	Availability
Single-Point Calibration Set Includes (2) Blanks, (1) 1.5 mg/L C NIST KHP in 40 mL glass vials and (1) 25.0 uS/cm Conductivity standard in 30 mL HDPE vial. Replaces CSTD 74401	15100	Ships in 5 business days
Single-Point Calibration / Verification Kit Includes (2) Blanks, (1) 1.5 mg/L C NIST KHP in 40 mL glass vials, (1) 25.0 uS/cm Conductivity standard in 30 mL HDPE vial, (1) Verification Blank, (1) 0.50 mg/L C NIST Sucrose in 40 mL glass vials, and (1) 25.0 uS/cm Conductivity standard in 30 mL HDPE vial.  Replaces CSTD 74612	15101	Ships in 5 business days
Accuracy / Precision / Verification Set Includes (1) Verification Blank, (1) 0.5 mg/L C NIST Sucrose in 40 mL glass vials and (1) 25.0 uS/cm Conductivity standard in 30 mL HDPE vial. Replaces CSTD 74402	15104	Ships in 5 business days
Linearity Set Includes (1) Linearity Blank, (1) each 0.25 mg/L, 0.50 mg/L, and 0.75 mg/L C NIST KHP in 40 mL glass vials. Replaces CSTD 74406	15106	Ships in 5 business days
Single-Point Calibration Set – TOC Only Includes (2) Calibration Blanks and (1) 1.5 mg/L C NIST KHP in 40 mL glass vials. Replaces CSTD 74405	15109	Ships in 5 business days
Accuracy / Precision / Verification Set — TOC Only Includes (1) Verification Blank and (1) 0.5 mg/L C NIST Sucrose in 40 mL glass vials. Conductivity standard is not included in this set. Replaces CSTD 74407	15110	Ships in 5 business days
Single-Point Calibration / Verification Set – TOC Only Includes (2) Blanks, (1) 1.5 mg/L C NIST KHP, (1) Verification Blank, (1) 0.50 mg/L C NIST Sucrose in 40 mL glass vials. Conductivity standards are not included in this set. Replaces CSTD 74622	15111	Ships in 5 business days

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

### SIEVERS 800

All of our Sievers' Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation. The following CRMs are designed to use on Sievers 800 TOC instrument for calibration, validation, and to satisfy regulatory requirements.

System Suitability		
Sets – USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 40 mL vials.  Replaces Sievers CSTD 31004-01	18000	Ships in 1 business day
Sets – USP	Cat. #	Availability
USP Sterile Water System Suitability Set 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.	18061	Ships in 5 business days
Sets – JP	Cat. #	Availability
JP System Suitability Set Includes (1) Reagent Water Rw, (1) 0.50 mg/L C from Sodium Dodecylbenzenesulfonate Rss in 40 mL vials. Replaces Sievers CSTD 90039-01	18000J	Ships in 5 business days
Sets – Low-Level System Suitability	Cat. #	Availability
Low-Level System Suitability Set		

Calibration & Validation		
Kits	Cat. #	Availability
Autosampler Calibration Set Includes (4) Blanks, (4) 25.0 mg/L C NIST KHP, and (4) 25.0 mg/L IC NIST NaHCO <sub>3</sub> in 40 mL vials. <i>Replaces CSTD 31002-01</i>	19500	Ships in 5 business days
Grab Mode Calibration Set Includes (2) Blanks, (2) 25.0 mg/L C NIST KHP, and (2) 25.0 mg/L IC NIST NaHCO <sub>3</sub> in 40 mL vials. <i>Replaces CSTD 31001-01</i>	19510	Ships in 5 business days
Linearity Set Includes (1) Blank, (1) 0.25 mg/L C NIST KHP, (1) 0.50 mg/L C NIST KHP and (1) 0.75 mg/L C NIST KHP in 40 mL vials. Replaces CSTD 31012-01	19515	Ships in 5 business days

Consumables		
	Cat. #	Availability
Replacement UV Lamp	20040	Ships in 1 business day
Replacement Pump Tubing	20050	Ships in 1 business day
Phosphoric Acid Reagent Cartridge – 150 mL*	21000	Ships in 5 business days
Phosphoric Acid Reagent Cartridge –300 mL*	21001	Ships in 5 business days
Persulfate Oxidizer Reagent Cartridge — 150 mL*	21005	Ships in 5 business days
Persulfate Oxidizer Reagent Cartridge – 300 mL*	21006	Ships in 5 business days
40 mL Ultra-Low TOC Vials	25025	Ships in 1 business day
60 Micron In-Line Stainless Filter	25035	Ships in 5 business days
Fan Filter	25040	Ships in 5 business days

<sup>\*</sup>Dangerous goods.

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

### SIEVERS 400

All of our Sievers' Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation. The following CRMs are designed to use on Sievers 400 TOC instrument for calibration, validation, and to satisfy regulatory requirements.



Sievers 400 ES

System Suitability		
Sets — USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 30 mL vials.  Replaces Sievers CSTD 31025-03	18300	Ships in 1 business day

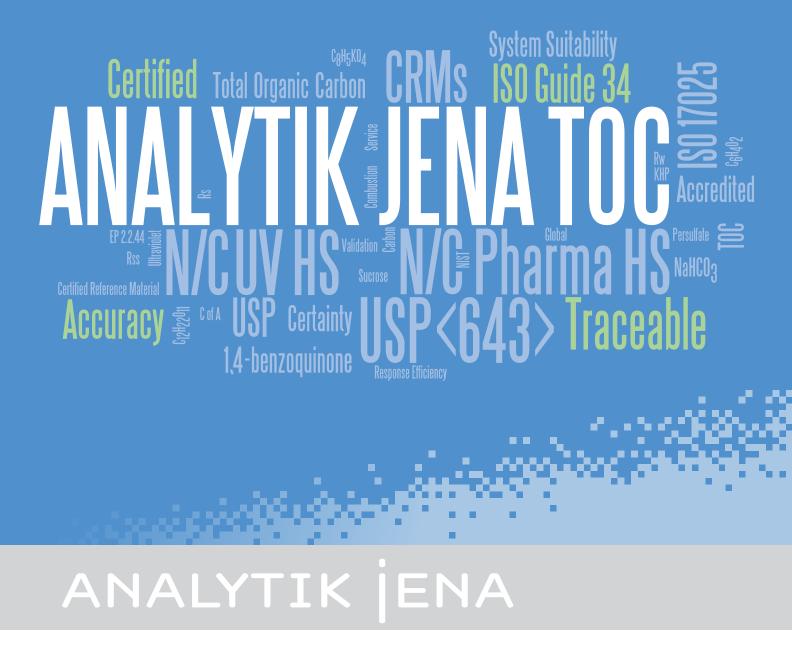
Calibration		
Kits	Cat. #	Availability
Calibration Kit Includes (1) Calibration Blank, (1) 1.25 mg/L C NIST KHP, and (1) 25.0 uS/cm Conductivity standard in 30 mL vials. Replaces CSTD 31005-02	14101	Ships in 1 business day
Single Use (in 30 mL vials)	Cat. #	Availability
Calibration Blank	13700	Ships in 1 business day
1.25 mg/L C NIST Sucrose	14100	Ships in 1 business day

Conductivity		
Single Use (in 30 mL vial)	Cat. #	Availability
Conductivity Standard Includes (1) 25 uS/cm solution in 30 mL vial. Replaces Sievers CSTD 30030-01	02700	Ships in 1 business day

Consumables		
	Cat. #	Availability
Replacement UV Lamp	20040	Ships in 1 business day
Replacement Pump Tubing	20055	Ships in 1 business day
60 Micron In-Line Stainless Filter	25035	Ships in 5 business days
Fan Filter	25040	Ships in 5 business days

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





ERA carries all the major validation and calibration sets for Analytik Jena (AJ) TOC analyzers.

### ANALYTIK | ENA

All of ERA's Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation.

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

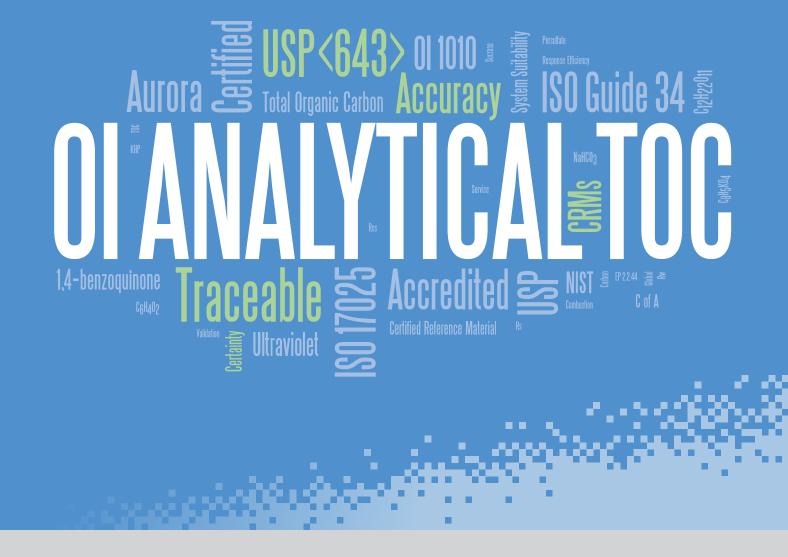
System Suitability		
Sets — USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 40 mL vials.  For use with AJ multi N/C pharma HS and IL550	18000	Ships in 1 business day
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 40 mL vials.  For use with AJ multi N/C UV HS and IL500	18004	Ships in 1 business day
Sets – USP	Cat. #	Availability
USP Sterile Water System Suitability Set 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.	18061	Ships in 5 business days
Sets – JP	Cat. #	Availability
JP System Suitability Set Includes (1) Reagent Water Rw, (1) 0.50 mg/L C from Sodium Dodecylbenzenesulfonate Rss in 40 mL vials.	18000J	Ships in 5 business days
Sets – Low-Level System Suitability	Cat. #	Availability
Low-Level System Suitability Set Includes (1) Reagent Water, (1) 0.30 mg/L C USP Sucrose, and (1) 0.30 mg/L C USP 1,4-Benzoquinone in 40 mL vials.	18040	Ships in 5 business days

Calibration & Cleaning Validation			
Kits	Cat. #	Availability	
Cleaning Validation Kit Includes (1) Calibration Blank, (1) each 0.25 mg/L, 0.50 mg/L, 0.75 mg/L, and 1.0 mg/L C NIST Sucrose in 40 mL vials.	19901	Ships in 5 business days	
Full TOC Calibration Kit Includes (1) Calibration Blank, (1) each 1.0 mg/L, 2.50 mg/L, 5.0 mg/L, 10.0 mg/L, 25.0 mg/L, 50.0mg/L, and 100 mg/L C NIST KHP in 250 mL amber glass bottles.	19970	Ships in 5 business days	
Limited TOC Calibration Kit Includes (1) Calibration Blank and (1) 0.6 mg/L C USP Sucrose in 250 mL amber glass bottles.	19985	Ships in 5 business days	

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



Analytik Jena multi N/C pharma HS



# OI ANALYTICAL

The ERA Certified Reference Materials (CRMs) listed below are commonly purchased for use with OI Analytical TOC instruments, including the very popular Aurora® model.

### **OI ANALYTICAL**

All of ERA's Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation. The following CRMs are designed to use on OI Analytical TOC instruments for calibration, validation, and to satisfy regulatory requirements.

System Suitability		
Sets — USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 40 mL vials.	18004	Ships in 1 business day
Sets — USP	Cat. #	Availability
USP Sterile Water System Suitability Set 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.	18061	Ships in 5 business days
Sets – JP	Cat. #	Availability
JP System Suitability Set Includes (1) Reagent Water Rw, (1) 0.50 mg/L C from Sodium Dodecylbenzenesulfonate Rss in 40 mL vials.	18000J	Ships in 5 business days
Sets – Low-Level System Suitability	Cat. #	Availability
Low-Level System Suitability Set Includes (1) Reagent Water, (1) 0.30 mg/L C USP Sucrose, and (1) 0.30 mg/L C USP 1,4-Benzoquinone in 40 mL vials.	18040	Ships in 5 business days

Consumables		
Kits	Cat. #	Availability
Phosphoric Acid Reagent (1 Liter)*	21016	Ships in 5 business days
Phosphoric Acid Reagent (2 Liter)*	21018	Ships in 5 business days
Persulfate Oxidizer Reagent (1 Liter)*	21017	Ships in 5 business days
Persulfate Oxidizer Reagent (2 Liter)*	21019	Ships in 5 business days

<sup>\*</sup>Dangerous goods.

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

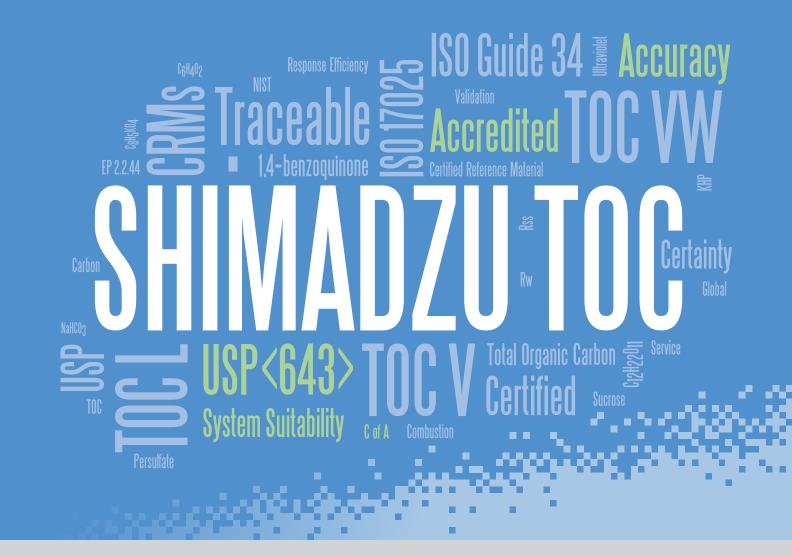
ERA is making the most commonly requested products available within 24 hours of order receipt to consistently meet your product needs. Products that are less frequently requested will be shipped within 5 business days of order receipt. Please check your order confirmation for the specific ship date.

Calibration & Validation		
Kits	Cat. #	Availability
Ultra Low-Level CRMs Kit Includes (3) Calibration Blanks (1) each 0.050 mg/L, 0.060 mg/L, 0.070 mg/L, 0.080 mg/L, 0.090 mg/L, 0.10 mg/L, 0.25 mg/L, 0.50 mg/L, and 1.0 mg/L C NIST KHP in 40 mL vials.	14203	Ships in 5 business days
Validation Set – Aurora Includes (6) Water Blanks, (1) 0.50 mg/L C NIST KHP, (3) 1.0 mg/L C NIST KHP, (1) 5.0 mg/L C NIST KHP, (1) 10.0 mg/L C NIST KHP, (1) 25.0 mg/L C NIST KHP, (1) 5.0 mg/L C NIST KHP/50.0 mg/L IC NIST NaHCO <sub>3</sub> , (4) 0.50 mg/L C USP Sucrose, and (1) 0.50 mg/L C USP 1,4-Benzoquinone in 40 mL vials.	19007	Ships in 5 business days



OI Aurora

Aurora is a registered trademark of Xylem, Incorporated.



# SHIMADZU

The ERA 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 ERA's Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation.

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

System Suitability		
Sets – USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 40 mL vials.	18000	Ships in 1 business day
Sets – USP	Cat. #	Availability
USP Sterile Water System Suitability Set 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.	18061	Ships in 5 business days
Sets – JP	Cat. #	Availability
JP System Suitability Set Includes (1) Reagent Water Rw, (1) 0.50 mg/L C from Sodium Dodecylbenzenesulfonate Rss in 40 mL vials.	18000J	Ships in 5 business days
Sets – Low-Level System Suitability	Cat. #	Availability
Low-Level System Suitability Set Includes (1) Reagent Water, (1) 0.30 mg/L C USP Sucrose, and (1) 0.30 mg/L C USP 1,4-Benzoquinone in 40 mL vials.	18040	Ships in 5 business days

Calibration & Validation		
Kits	Cat. #	Availability
TOC-V and TOC-L Validation Kit Includes (1) Water Blank and (2) 100.0 mg/L C NIST KHP in 125 mL amber glass bottles.	11002	Ships in 5 business days
TOC-V and TOC-L HS Validation Kit Includes (1) Water Blank and (2) 10.0 mg/L C NIST KHP in 125 mL amber glass bottles.	11003	Ships in 5 business days
TOC-V and TOC-L Wet Chem Validation Kit Includes (3) Water Blanks, (2) 0.50 mg/L C NIST KHP, and (4) 1.0 mg/L C NIST KHP in 40 mL vials.	11004	Ships in 5 business days
TOC-V and TOC-L Multi Calibration Kit Includes (2) Calibration Blanks, (2) each 0.10 mg/L, 0.25 mg/L, 0.50 mg/L C NIST KHP, (1) each 0.75 mg/L and 1.0 mg/L C NIST KHP in 40 mL vials.	11005	Ships in 5 business days



Shimadzu TOC-VWs

Consumables		
Kits	Cat. #	Availability
Phosphoric Acid Reagent (1 Liter)*	21016	Ships in 5 business days
Phosphoric Acid Reagent (2 Liter)*	21018	Ships in 5 business days
Persulfate Oxidizer Reagent (1 Liter)*	21017	Ships in 5 business days
Persulfate Oxidizer Reagent (2 Liter)*	21019	Ships in 5 business days

<sup>\*</sup>Dangerous goods.

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



Shimadzu TOC-TCs



### TELEDYNE TEKMAR

ERA offers a comprehensive suite of calibration and validation Certified Reference Materials (CRMs) designed specifically for Teledyne Tekmar TOC instruments.

### TELEDYNE TEKMAR

All of ERA's Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation. The following CRMs are designed to use on Teledyne Tekmar TOC instruments for calibration, validation, and to satisfy regulatory requirements.



System Suitability		
Sets – USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 40 mL vials.	18000	Ships in 1 business day
Sets – USP	Cat. #	Availability
USP Sterile Water System Suitability Set 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.	18061	Ships in 5 business days
Sets – JP	Cat. #	Availability
JP System Suitability Set Includes (1) Reagent Water Rw, (1) 0.50 mg/L C from Sodium Dodecylbenzenesulfonate Rss in 40 mL vials.	18000J	Ships in 5 business days
Sets – Low-Level System Suitability	Cat. #	Availability
Low-Level System Suitability Set Includes (1) Reagent Water, (1) 0.30 mg/L C USP Sucrose, and (1) 0.30 mg/L C USP 1,4-Benzoquinone in 40 mL vials.	18040	Ships in 5 business days



Tekmar Phoenix® 8000

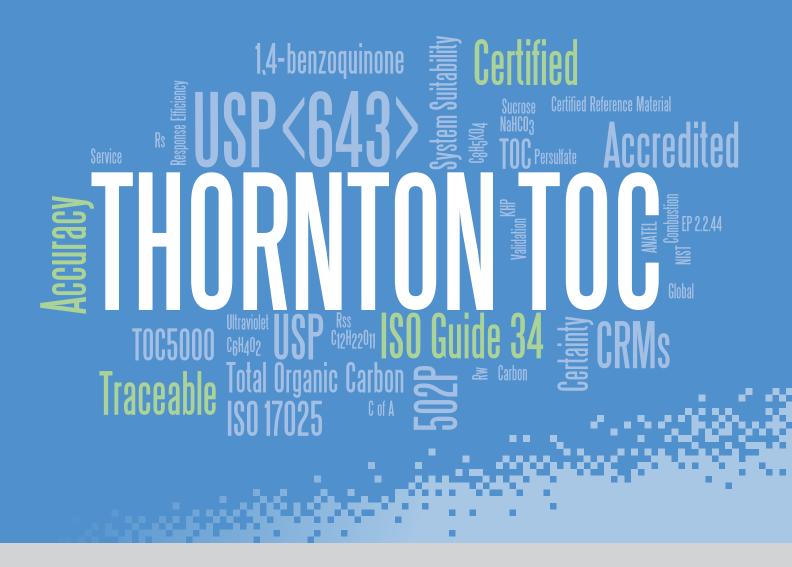
Phoenix and Fusion are registered trademarks of Teledyne Technologies Incorporated.

Kits	Cat. #	Availability
Ultra Low-Level CRMs Kit Includes (3) Calibration Blanks (1) each 0.050 mg/L, 0.060 mg/L, 0.070 mg/L, 0.080 mg/L, 0.090 mg/L, 0.10 mg/L, 0.25 mg/L, 0.50 mg/L, and 1.0 mg/L C NIST KHP in 40 mL vials.	14203	Ships in 5 business days
Validation Set – Phoenix Includes (2) Water Blanks, (3) 0.50 mg/L C NIST KHP, (6) 1.0 mg/L C NIST KHP, (1) 2.0 mg/L C NIST KHP, (1) 5.0 mg/L C NIST KHP, (1) 50.0 mg/L C NIST KHP, (1) 100 mg/L IC NIST NaHCO <sub>3</sub> , (1) Reagent Water Rw, (1) 0.50 mg/L C USP Sucrose Rs, and (1) 0.50 mg/L C USP 1,4-Benzoquinone Rss in 40 mL vials.	19002	Ships in 5 business days
Validation Set – Phoenix (New) Includes (5) Water Blanks, (1) 0.50 mg/L C NIST KHP, (5) 1.0 mg/L C NIST KHP, (1) 5.0 mg/L C NIST KHP, (1) 1.0 mg/L C NIST KHP, (1) 1.0 mg/L IC NIST NaHCO <sub>3</sub> , (1) Reagent Water Rw, (1) 0.50 mg/L C USP Sucrose Rs, and (1) 0.50 mg/L C USP 1,4-Benzoquinone Rss in 40 mL vials.	19003	Ships in 5 business days
Validation Set – Fusion Includes (3) Water Blanks, (3) 1.0 mg/L C NIST KHP, (1) 10.0 mg/L C NIST KHP, (1) 25.0 mg/L IC NIST NaHCO <sub>3</sub> , (1) Reagent Water Rw, (1) 0.50 mg/L C USP Sucrose Rs, and (1) 0.50 mg/L C USP 1,4-Benzoquinone Rss in 40 mL vials and (1) 5.0 mg/L C NIST KHP in 125 mL amber glass bottle.	19004	Ships in 5 business days

Consumables		
Reagents	Cat. #	Availability
Phosphoric Acid Reagent (1 Liter)*	21016	Ships in 5 business days
Phosphoric Acid Reagent (2 Liter)*	21018	Ships in 5 business days
Persulfate Oxidizer Reagent (1 Liter)*	21017	Ships in 5 business days
Persulfate Oxidizer Reagent (2 Liter)*	21019	Ships in 5 business days

<sup>\*</sup>Dangerous goods.

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



# THORNTON

ERA offers the highest quality calibration and system suitability kits for your Thornton 5000 TOC meters. For conductivity we offer validation kits that allow an accurate, verifiable, and FDA-compliant approach to validating the sensors you use for USP <645> methods or your own. Please see pages 35-37 for a complete line of conductivity Certified Reference Materials (CRMs).

### THORNTON 5000

All of ERA's Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation. The following CRMs are designed to use on Thornton 5000 TOC instruments for calibration and to satisfy regulatory requirements.

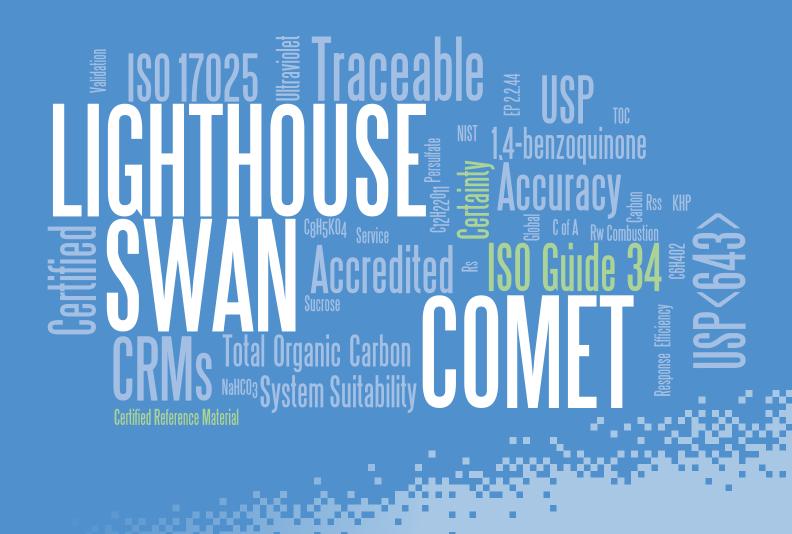
System Suitability		
Sets – USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (2) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 500 mL HDPE containers.	18151	Ships in 5 business days
Sets – Low-Level System Suitability	Cat. #	Availability
Low-Level System Suitability Set Includes (2) Reagent Water, (1) 0.30 mg/L C USP Sucrose, and (1) 0.30 mg/L C USP 1,4-Benzoquinone in 500 mL HDPE containers.	18153	Ships in 5 business days

Calibration		
Kits	Cat. #	Availability
Calibration Kit Includes (2) Calibration Blanks, (1) 0.25 mg/L C NIST Sucrose and (1) 0.50 mg/L C NIST Sucrose in 500 mL HDPE containers.	11414	Ships in 5 business days

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



Thornton 5000 TOC with Multiparameter Transmitter



# OTHER TOC INSTRUMENTS

### OTHER TOC INSTRUMENTS

All of ERA's Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation. The following CRMs are designed to use on various brands of TOC instruments for calibration and to satisfy regulatory requirements.

### SWAN ANALYTICAL AND COMET ANALYTICS

Cat. #	Availability
18055	Ships in 5 business days
Cat. #	Availability
18056	Ships in 5 business days
Cat. #	Availability
18059	Ships in 5 business days
	18055  Cat. #  18056  Cat. #

Calibration & Other		
Kits	Cat. #	Availability
Swan Calibration Kit Includes (1) Calibration Blank and (1) 1.0 mg/L C NIST Sucrose in 250 mL HDPE containers.	10035\$	Ships in 5 business days
Swan Function Test Kit Includes (1) 20.0 mg/L C Sucrose and (1) 20.0 mg/L C 1,4-Benzoquinone in 125 mL HDPE containers.	19700	Ships in 5 business days

### LIGHTHOUSE

System Suitability		
Sets – USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 60 mL HDPE containers.	18010	Ships in 1 business day

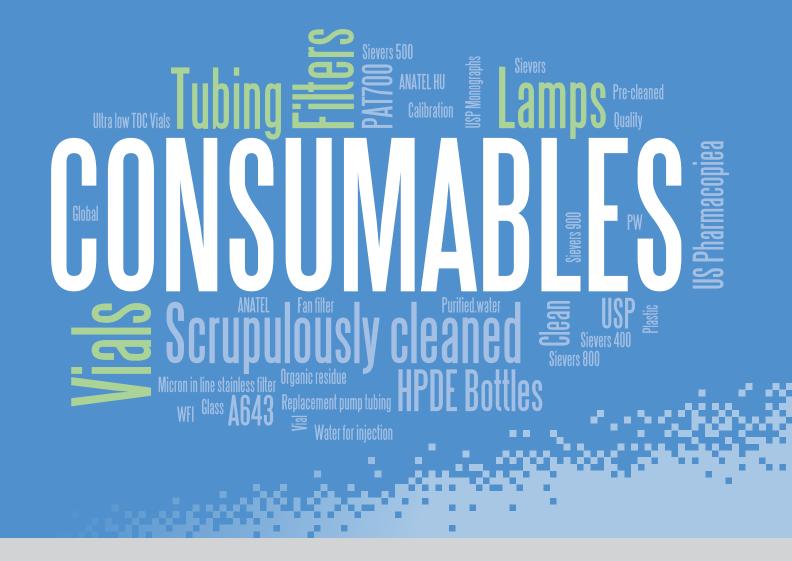
Calibration		
Kits	Cat. #	Availability
Calibration Kit Includes (1) Calibration Blank and (1) each 0.25 mg/L, 0.50 mg/L, and 0.75 mg/L C NIST Sucrose in 60 mL HDPE containers.	19202	Ships in 1 business day

### **MEMBRAPURE**

System Suitability		
Sets – USP / EP	Cat. #	Availability
USP/EP Bulk Water System Suitability Set Includes (1) Reagent Water Rw, (1) 0.5 mg/L C USP Sucrose, and (1) 0.5 mg/L USP 1,4-Benzoquinone in 500 mL HDPE containers.	18140	Ships in 5 business days
Individual – USP Sterile Water (500 mL HDPE Container)	Cat. #	Availability
USP Reagent Water (Rw)	18144	Ships in 5 business days
8.0 mg/L C USP Sucrose (Rs)	18147	Ships in 5 business days
8.0 mg/L C USP 1,4-Benzoquinone (Rss)	18148	Ships in 5 business days
Individual – Low-Level (500 mL HDPE Container)	Cat. #	Availability
USP Reagent Water (Rw)	18144	Ships in 5 business days
0.3 mg/L C USP Sucrose	18154	Ships in 5 business days
0.3 mg/L C USP 1,4-Benzoquinone	18155	Ships in 5 business days

Calibration		
Individual Standards (500 mL HDPE Container)	Cat. #	Availability
Calibration Blank	10110	Ships in 5 business days
0.5 mg/L C NIST Sucrose	10710	Ships in 5 business days

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



# 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 here at ERA 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.

All ERA vials and bottles, whether glass or polymer, represent the most consistently clean sample containers available anywhere.

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

ERA offers consumable products for various TOC instruments as detailed below.

Vials and Bottles		
	Cat. #	Availability
40mL Ultra-Low TOC Glass Vials (80/case)	25025	Ships in 1 business day
60 mL Pre-cleaned HDPE Bottles – Natural (1/pack)	25030	Ships in 1 business day
60 mL Pre-cleaned HDPE Bottles – Natural (25/pack)	25031	Ships in 1 business day
60 mL Pre-cleaned HDPE Bottles – Amber (25/pack)	25034	Ships in 5 business days

U	V			
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v	W	-0.		

Replacement UV Lamps for ANATEL and Sievers models.

	Cat. #	Availability
ANATEL A643 / TOC600	20036A	Ships in 1 business day
ANATEL PAT700	20037	Ships in 1 business day
Sievers 400 / 800	20040	Ships in 1 business day
Sievers 500 / 900	20045	Ships in 1 business day

Reagent Cartridges for Sievers			
	Cat. #	Availability	
Phosphoric Acid Reagent Cartridge for Sievers 800/900 (150 mL)*	21000	Ships in 5 business days	
Phosphoric Acid Reagent Cartridge for Sievers 800/900 (300 mL)*	21001	Ships in 5 business days	
Persulfate Oxidizer Reagent Cartridge for Sievers 800/900 (150 mL)*	21005	Ships in 5 business days	
Persulfate Oxidizer Reagent Cartridge for Sievers 800/900 (300 mL)*	21006	Ships in 5 business days	

<sup>\*</sup>Dangerous goods.

Cat. #	Availability
21016	Ships in 5 business days
21018	Ships in 5 business days
21017	Ships in 5 business days
21019	Ships in 5 business days
	21016 21018 21017

<sup>\*</sup>Dangerous goods.

### Tubing

Replacement Pump Tubing for Sievers models.

	Cat. #	Availability
Sievers 400	20055	Ships in 1 business day
Sievers 800	20050	Ships in 1 business day
Sievers 900	20060	Ships in 1 business day

Filters		
	Cat. #	Availability
60 Micron In-Line Stainless Filter	25035	Ships in 5 business days
Fan Filter for Sievers 800	25040	Ships in 5 business days





# CLEANING VALIDATION

ERA is your source for coupons, swabs, templates and vials – everything you need for recovery studies and routine verification sampling.

### CLEANING VALIDATION

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. #	Availability
Vial and Swab Sampling Kit – Small Includes (20) certified clean swabs and (10) certified clean vials.	CV10000TX	Ships in 5 business days
Vial and Swab Sampling Kit – Large Includes (160) certified clean swabs and (80) certified clean vials.	CV10005TX	Ships in 5 business days

### **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 ERA for pricing, availability, and custom sizing.

	Cat. #	Availability
16 cm² (25 per pack)	30028	Call for Delivery
25 cm² (25 per pack)	30029	Call for Delivery
100 cm² (25 per pack)	30032	Call for Delivery

### **Swabs**

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

	Cat. #	Availability
TOC Swabs (< 50.0 ppb TOC) Includes (20) swabs (1 total bag)	30033TX	Ships in 5 business days
TOC Swabs (< 50.0 ppb TOC) Includes (100) swabs (20/bag, 5 total bags)	30031TX	Ships in 5 business days
HPLC Swabs (Abs 254: 0.1 au max) Includes (100) swabs (50/bag, 2 total bags)	30030	Ships in 5 business days

### **Custom Coupons**

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 ERA customer service representative.

	Cat. #	Availability
Polymer	30024	Call for Delivery
Metal	30025	Call for Delivery
Glass	30027	Call for Delivery

Call ERA at 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 saleseu@eraqc.com in the U.K. Please have the following information available:

**Material** Metal, plastic, rubber or glass type (stainless steel, polyethylene, etc.).

**Grade** Specific grade of material; like 316 stainless, HDPE or borosilicate glass.

Finish Arguably the most important factor for metals. The finish refers to the surface roughness

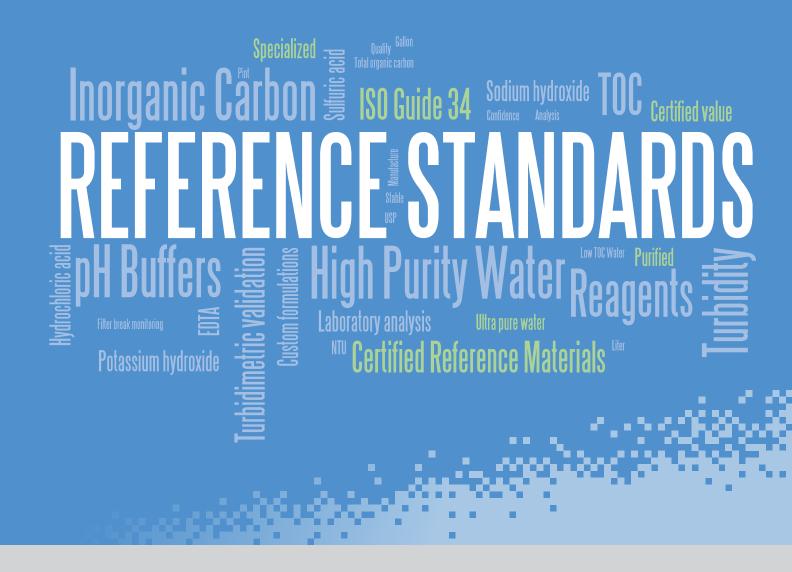
and is generally stated in units of "Ra.". It is most often measured using a profilometer.

**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.



# REFERENCE STANDARDS

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### INORGANIC CARBON

All of ERA's Certified Reference Materials (CRMs) are prepared using carefully controlled processes that are scrutinized under ERA's ISO Guide 34 accreditation. 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 quantities 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.

Individual CRMs for Inorganic Carbon		
	Cat. #	Availability
0.5 mg/L IC from NIST NaHCO <sub>3</sub> (40 mL)	15990	Ships in 1 business day
1.0 mg/L IC from NIST NaHCO <sub>3</sub> (40 mL)	16000	Ships in 1 business day
5.0 mg/L IC from NIST NaHCO <sub>3</sub> (40 mL)	16300	Ships in 1 business day
10.0 mg/L IC from NIST NaHCO <sub>3</sub> (40 mL)	16600	Ships in 1 business day
25.0 mg/L IC from NIST NaHCO <sub>3</sub> (40 mL)	16900	Ships in 1 business day
50.0 mg/L IC from NIST NaHCO <sub>3</sub> (40 mL)	17130	Ships in 1 business day

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

ERA is making the most commonly requested products available within 24 hours of order receipt to consistently meet your product needs. Products that are less frequently requested will be shipped within 5 business days of order receipt. Please check your order confirmation for the specific ship date.

### TURBIDITY

ERA has manufactured reference materials for turbidity analysis for more than 30 years. ERA's turbidity products are designed specifically for pharmaceutical turbidimetric validation, calibration and monitoring applications. Whether you are performing particle content/concentration monitoring for fermentation progress or filter break monitoring, we guarantee your satisfaction with ERA turbidity reference materials.

Individual Bulk Turbidity Standards in 1 Liter Containers		
	Cat. #	Availability
25 NTU	14105	Ships in 5 business days
50 NTU	14106	Ships in 5 business days
100 NTU	14107	Ships in 5 business days
150 NTU	14108	Ships in 5 business days
175 NTU	14109	Ships in 5 business days
200 NTU	14110	Ships in 5 business days
250 NTU	14111	Ships in 5 business days
300 NTU	14112	Ships in 5 business days
350 NTU	14113	Ships in 5 business days
400 NTU	14114	Ships in 5 business days
450 NTU	14115	Ships in 5 business days
500 NTU	14116	Ships in 5 business days

ERA can also manufacture custom turbidity products if you need a standard that is not listed here. Please contact us a 1-800-372-0122 to inquire about custom turbidity reference materials.

### HIGH-PURITY WATER

ERA offers 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 lon-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. #	Availability
USP Purified Low-TOC Water – 4 Liter	PW10000	Ships in 5 business days
USP Purified Low-TOC Water — 4 x 4 Liter Case	PW10005	Ships in 5 business days

Guaranteed Specifications	
рН	5–7
Residue after Evaporation	1 mg/L max
Conductivity (at Bottling)	1.1 μS/cm max @ 20 °C
Total Organic Carbon	50 ppb max
Total Bacterial Count	< 10 cfu/mL
Color (APHA)	5 max
Absorbance	0.1 au max

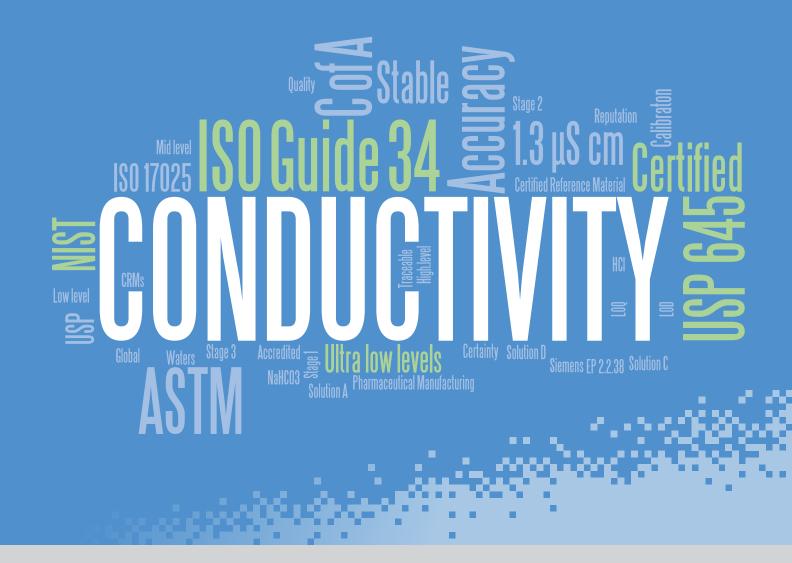
Elemental Analysis			
Ag (Silver)	Max. 0.0004 mg/L	Fe (Iron)	Max. 0.001 mg/L
Al (Aluminum)	Max. 0.002 mg/L	Mn (Manganese)	Max. 0.0004 mg/L
As (Arsenic)	Max. 0.002 mg/L	Mo (Molybdenum)	Max. 0.002 mg/L
B (Boron)	Max. 0.005 mg/L	Ni (Nickel)	Max. 0.0004 mg/L
Ba (Barium)	Max. 0.001 mg/L	Pb (Lead)	Max. 0.001 mg/L
Be (Beryllium)	Max. 0.002 mg/L	Sb (Antimony)	Max. 0.001 mg/L
Cd (Cadmium)	Max. 0.001 mg/L	Se (Selenium)	Max. 0.0001 mg/L
Co (Cobalt)	Max. 0.001 mg/L	Sr (Strontium)	Max. 0.0004 mg/L
Cr (Chromium)	Max. 0.0004 mg/L	Tl (Thallium)	Max. 0.00005 mg/L
Cu (Copper)	Max. 0.0004 mg/L		

### PH BUFFERS

ERA manufacturers three color-coded pH Buffers that are prepared under our ISO Guide 34 accreditation. The buffers are mercury free, guaranteed stable for one year, and they are directly traceable to NIST Standard Reference Materials (SRMs). 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. #	Availability
pH 4 (Red) 1 Bottle	127	Ships in 1 business day
pH 4 (Red) Case of 6 Bottles	128	Ships in 1 business day
pH 7 (Yellow) 1 Bottle	131	Ships in 1 business day
pH 7 (Yellow) Case of 6 Bottles	132	Ships in 1 business day
pH 10 (Blue) 1 Bottle	135	Ships in 1 business day
pH 10 (Blue) Case of 6 Bottles	136	Ships in 1 business day
(2) Each of pH 4, pH 7, and pH 10	141	Ships in 1 business day

ERA manufactures other pH buffers that do not fall under our Guide 34 accreditation. These products are available from our environmental reagents group or as custom products for standard laboratory analysis. Please contact us at 1-800-372-0122 to inquire about custom pH buffers or our line of environmental reagents.



# CONDUCTIVITY

ERA is ISO Guide 34 accredited as a Certified Reference Material (CRM) producer and has been manufacturing conductivity standards for more than 30 years. ERA offers 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, ERA has the conductivity products and services to support your efforts.

### CONDUCTIVITY

All ERA Conductivity standards are manufactured in a water matrix.

Conductivity Kits		
	Cat. #	Availability
Conductivity Validation Kit – Multiple Use Includes (1) 25 uS/cm, (1) 100 uS/cm, (1) 146.93 uS/cm (Solution D), and (1) Reagent Blank for use with Solution D in 500 mL HDPE bottles.	02900	Ships in 5 business days
Solution 25 Test Kit Includes (1) 25 uS/cm standard in a 500 mL HDPE bottle and (5) pre-cleaned 125 mL HDPE wide- mouth bottles.	01100	Ships in 1 business day
Solution 25 Test Kit Includes (1) 25 uS/cm standard in a 1 Liter HDPE bottle and (5) pre-cleaned 125 mL HDPE wide- mouth bottles.	01000	Ships in 1 business day

### 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. #	Availability
5 uS/cm (60 mL)	01301	Ships in 5 business days
5 uS/cm (125 mL)	01302	Ships in 5 business days
5 uS/cm in (500 mL)	01303	Ships in 5 business days
10 uS/cm (60 mL)	01306	Ships in 5 business days
10 uS/cm (125 mL)	01307	Ships in 5 business days
10 uS/cm (500 mL)	01308	Ships in 5 business days
25 uS/cm (500 mL)	01300	Ships in 5 business days
25 uS/cm (1 Liter)	01200	Ships in 5 business days

### 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. #	Availability
100 uS/cm (125 mL)	02600	Ships in 5 business days
100 uS/cm (250 mL)	02250	Ships in 5 business days
100 uS/cm in (500 mL)	02500	Ships in 5 business days
100 uS/cm (1 Liter)	02400	Ships in 5 business days

# 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 uS/cm solution. All Solution D products include an associated Reference Blank.

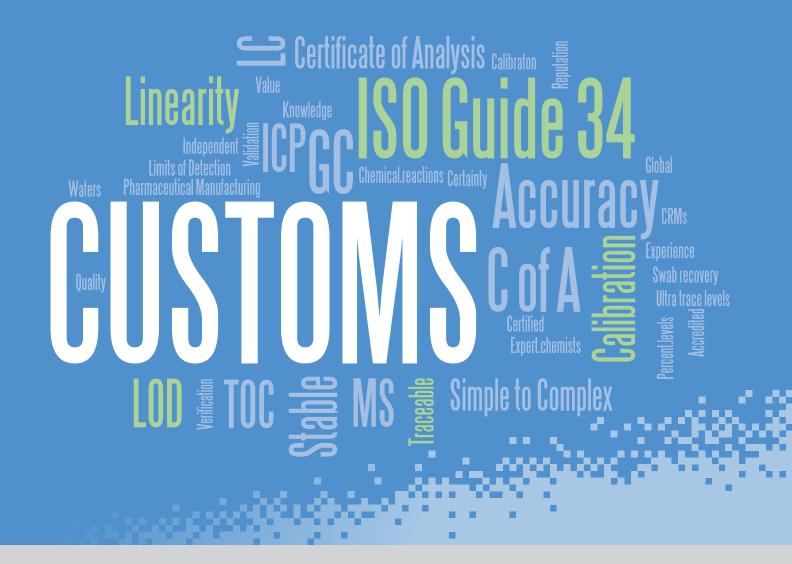
	Cat. #	Availability
Solution D at 146.93 uS/cm (1 Liter)	01700	Ships in 5 business days
Solution D at 146.93 uS/cm (500 mL)	01800	Ships in 5 business days
Solution D at 146.93 uS/cm (125 mL)	01900	Ships in 5 business days
Solution D Test Kit (1 Liter) Includes (1) Solution D, (1) Reference Blank, and (20) pre-cleaned 125 mL wide-mouth HDPE containers.	01500	Ships in 5 business days
Solution D Test Kit (500 mL) Includes (1) Solution D, (1) Reference Blank, and (10) pre-cleaned 125 mL wide-mouth HDPE containers.	01600	Ships in 5 business days

### High-Level Conductivity (in HDPE bottles)

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

ASTM Solution C at 1408.8 uS/cm (1 Liter)  01620 Ships in 5 business days 1000 uS/cm (125 mL)  01410 Ships in 5 business days 1000 uS/cm (500 mL)  01420 Ships in 5 business days 1000 uS/cm (1 Liter)  01430 Ships in 5 business days 10,000 uS/cm (125 mL)  01630 Ships in 5 business days 10,000 uS/cm (125 mL)  01640 Ships in 5 business days 100,000 uS/cm (125 mL)  01650 Ships in 5 business days 100,000 uS/cm (500 mL)  01660 Ships in 5 business days 100,000 uS/cm (125 mL)  01661 Ships in 5 business days 200,000 uS/cm (125 mL)  01662 Ships in 5 business days 200,000 uS/cm (500 mL)  01663 Ships in 5 business days 200,000 uS/cm (500 mL)  01664 Ships in 5 business days 200,000 uS/cm (500 mL)*  01665 Ships in 5 business days 200,000 uS/cm (500 mL)*  01666 Ships in 5 business days 200,000 uS/cm (500 mL)*  01667 Ships in 5 business days 200,000 uS/cm (500 mL)*  01667 Ships in 5 business days 200,000 uS/cm (500 mL)*  01667 Ships in 5 business days		Cat. #	Availability
1000 uS/cm (125 mL)	ASTM Solution C at 1408.8 uS/cm (125 mL)	01610	Ships in 5 business days
1000 uS/cm (500 mL)	ASTM Solution C at 1408.8 uS/cm (1 Liter)	01620	Ships in 5 business days
1000 uS/cm (1 Liter)	1000 uS/cm (125 mL)	01410	Ships in 5 business days
10,000 uS/cm (125 mL)	1000 uS/cm (500 mL)	01420	Ships in 5 business days
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500,000 uS/cm (500 mL)* 01668 Ships in 5 business days	500,000 uS/cm (125 mL)*	01667	Ships in 5 business days
	500,000 uS/cm (500 mL)*	01668	Ships in 5 business days

<sup>\*</sup> Dangerous goods.



### CUSTOMS

ERA fulfills more than 1000 custom requests each year, from simple to the complex. If you need a reference standard that is not listed in this catalog, or if you have a project that requires a unique standard, please call us to discuss how we can help.

### **Quality Focus**

ERA offers custom products manufactured specifically for ultra-pure water and/or environmental applications. ERA's customer service department can assist you with your custom product needs. ERA has experience with the following:

- Total Organic Carbon and Inorganic Carbon mixtures
- Calibration/Linearity/LOD kits for TOC, and conductivity
- Secondary or tertiary source calibration verification standards
- Swab recovery studies

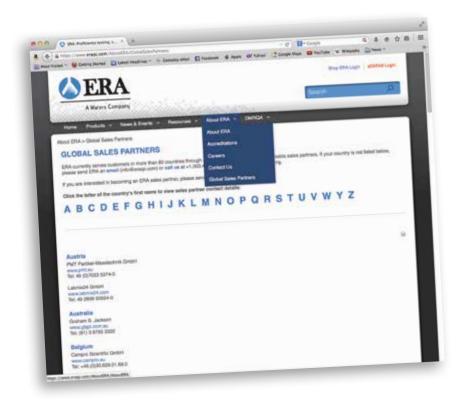
- Project or plant specific Conductivity solutions
- Chemical, microbiological, radiochemical, and air emission analytes
- One standard or hundreds of standards
- Managed methodology studies

#### Are custom standards expensive?

While the cost of custom standards certainly depends on the complexity of your requirements, the costs for most simple standards is very reasonable. The final cost is dependent on many factors, including the materials used, time required, complexity of the standards and extent of analytical validation required. In every case, you will receive a fixed price quotation based upon your project-specific requirements and you can count on ERA to deliver what you need, when you need it. Now that's versatility.

### ERA DISTRIBUTORS AND SALES PARTNERS

ERA currently serves customers in more than 80 countries through an extensive network of knowledgeable distributors and sales partners. Please visit www.eraqc.com to find the name of an authorized distributor in your area or country. Click on the Global Sales Partner link in the About ERA pull down menu. You may also request distributor information by sending an e-mail to ERA\_Europe\_Sales@waters.com in Europe or info@eraqc.com in the U.S. and the rest of the world.



### ERA SUBSCRIPTION SERVICES

ERA 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 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 ERA to set up a subscription order or if you have any guestions about these services.

### HOW TO ORDER

Customers in the U.S. may order ERA's Life Sciences products online at www.eraqc.com or by calling ERA at 800-372-0122 ■ 303-431-8454.

If you live outside the U.S., please contact an authorized ERA distributor to order ERA's Life Sciences products.

### **Offices**

U.S.

**ERA** 

16341 Table Mountain Pkwy

Golden, CO 80403

**United States** 

800-372-0122

303-431-8454

info@eragc.com

6:00 am - 6:00 pm (MT) Monday-Thursday

6:00 am - 5:00 pm (MT) Friday

#### **IRELAND**

Waters Technologies Ireland Ltd.

Wexford Business Park

Drinagh

Wexford

Ireland

+353 53 91 60549

ERA Europe Sales@waters.com

8:00 am - 5:00 pm (GMT) Monday-Friday

### TERMS AND CONDITIONS

### **Credit Cards**

ERA accepts MasterCard, VISA, American Express and Discover.









### Confirmation

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 and to verify the ship date.

### **Pricing**

Prices are F.O.B. Golden, CO and or Wexford, Ireland and are subject to change without notice. Subscription prices are firm for the duration of the subscription.

### **Terms**

Terms are net 30 days. Freight charges are prepaid and added to the invoice. A \$10 charge is added to each invoice per shipment to cover regulated materials packaging and handling.

### **Shipping**

Due to the semi-perishable nature of the standards we manufacture, we require the product be shipped for overnight delivery. Please follow instructions and refrigerate immediately upon receipt. Non-perishable items can be shipped per your request.

### Safety

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 ERA products rests entirely with the purchaser and user. If you need a Safety Data Sheet (SDS) for any ERA product, please visit www.eraqc.com/resources or call ERA:

U.S. facility: 800-372-0122 303-431-8454

Ireland facility: +353 53 91 60549

### Return/Replacement Policy

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

NO OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED, IS MADE WITH RESPECT TO THE PRODUCTS AND/OR SERVICES. ERA EXPRESSLY EXCLUDES THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. ERA SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR ANY OTHER INDIRECT DAMAGES RESULTING FROM ECONOMIC LOSS.

### **ERA**

16341 Table Mountain Pkwy Golden, CO 80403 U.S.A. T: 800 372 0122 (or) 303 431 8454 F: 303 421 0159

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