Sievers® Certified Reference Materials and Consumables Catalog

VEOLIA

Sievers Certified Reference Materials and Consumables

For more than 30 years, thousands of customers worldwide have relied on the Sievers brand of Total Organic Carbon (TOC) Analyzers, certified reference materials (Sievers Standards), and consumables for their critical TOC measurement needs. As the recognized world leader in designing and manufacturing TOC measurement technology, Sievers products combine this expertise with renowned Six Sigma methodology to ensure the finest quality in standards and consumables. Now, as part of Veolia, Sievers standards and consumables provide unmatched performance and reliability in the marketplace.

Sievers analytical instruments and technologies now include endotoxin detection. The Sievers Eclipse Bacterial Endotoxins Testing (BET) Platform uses unique microfluidic technology to allow users to set up assays more quickly and easily, while still complying with strict analytical and regulatory requirements. The quality standards for Sievers Eclipse Microplates ensures customers are confident in their endotoxin results. BET microplates, reagents, and accessories avaliable from Sievers support easier testing with fewer pipetting steps, less operator-to-operator variability, and a reduction in horseshoe crab lysate usage, all while meeting USP, EP, and JP compedial requirements.

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Certified and Traceable

With extensive expertise in supporting the pharmaceutical market, Veolia understands how critical compliance and traceability are when using analytical standards. Documentation for our certified and traceable Sievers reference materials is important in supporting your data and building confidence in your measurement results. To provide a base for your internal documentation needs, we supply a Certificate of Analysis with each reference standard that documents source material traceability and the statistical uncertainty of measurement associated with production.

To provide our customers with the highest level of confidence and the traceability they need, Sievers standards are prepared from the highest purity raw materials available. Materials for system suitability standards are sourced directly from the United States Pharmacopoeial Convention (USP). Other standards for calibration and validation are traceable to National Institute of Standards and Technology (NIST) Reference Materials. In addition, laboratory equipment and glassware are traceable to the International System of Units (SI) through national reference standards.

Circle of Quality

Our Circle of Quality is the foundation of what sets Veolia apart from other analytical instrument, consumable, and service providers. Here's how:

- Trained and certified Field Service Engineers and Technical Support team apply domain expertise to provide onsite repair, maintenance, and remote support.
- Certified consumables and parts are traceable throughout our process and yours.
- Our Quality team provides you with reports in the event of a product failure or out-of-specification (OOS) investigation.
- Application experience and regulatory expertise maximize value, improve your processes, and meet local and global regulations.

Stringent Quality Control

Veolia makes continuous advancements in the materials science, contamination control procedures, automated processes, and clean room conditions required to produce sensitive, low-level reference materials and consumables.

Veolia:

- Prepares Sievers standards in accordance with USP Chapter <643>, USP Chapter <645>, and EP Method <2.2.44>.
- ISO/IEC 17025 and ISO 17034 accreditations** ensure reference materials are consistently produced, controlled, and audited to robust quality standards.
- Produces Sievers reference materials in an ISO 8 clean room to minimize contamination.
- Uses only the highest grade raw materials (USP and NIST traceable) available which have undergone rigorous quality control.
- Limits human error by using advanced, custom-designed, automated manufacturing throughout production.

**Accreditations applicable to standards produced in US and Hungary only. Standards produced in China, within an ISO 9001 certified facility, follow the same QC pass/fail criteria and production processes as the US and Hungary locations.

Value and Convenience

The Veolia standards production lab (see page 8) not only allows for the maintenance of the most rigorous reference standards manufacturing process in the industry but also enables us to produce standards on a large scale. Additionally, Sievers standards are designed to maximize productivity when used with Sievers TOC Analyzers. With no preparation required and an extended shelf life, these ready-to-use materials are available when you need them. With the convenience of overnight delivery and confidence that comes with Veolia's guaranteed performance, Sievers standards and consumables are the logical choice for your business.

Flexible Ordering and Delivery

For your convenience, Veolia offers several programs and ordering methods to fit your needs. The annual blanket standards order allows you to minimize paperwork and delivery scheduling and save money. With a single purchase order, you can schedule a full year of standards shipments and rest assured they will arrive when needed. North American customers can also take advantage of our web store to conveniently order standards 24/7. See page 39 for details.

Sievers Standards for all TOC Instruments

The Sievers standards product line is designed for all Sievers TOC instruments, as well as other instrument brands including Shimadzu, OI Analytical, Skalar, and Teledyne-Tekmar.

Custom standards are also available on request. (See page 22 for additional information.)

Sievers TOC Standards Products and Applications

Veolia can help you design a system suitability test program that meets your internal needs and satisfies compendial requirements.

Only Veolia offers a complete TOC validation standard set for qualifying a TOC unit for quantitative measurements according to ICH Q2 (R1) guidance.

System Suitability and Compendial Test Standards

System suitability sets are prepared in accordance with USP Chapter <643> and include 500 ppb 1,4-benzoquinone and sucrose solutions along with the associated reagent water blank. Sets are available for the Sievers M-Series, M500, 500 RL, and CheckPoint TOC instruments. System suitability standards are also available for use with other manufacturers' TOC instruments. These standards allow users to comply not only with USP Chapter <643>, but also with European Pharmacopoeia (EP) <2.2.44>, Chinese Pharmacopoeia (CP) IV <0682>, Japanese Pharmacopoeia (JP) <2.59>, and Indian Pharmacopoeia (IP) <2.4.30>.

The Japanese and Korean Pharmacopoeia require the use of SDBS (Sodium dodecylbenzenesulfonate) as the challenge of the TOC method. Veolia is the first company to offer reference materials to support the Japanese and Korean Pharmacopoeia TOC requirements.

Calibration and Verification Standards Sets

The purpose of instrument calibration is to minimize bias. Proper calibration is the critical first step to good instrument performance. Sievers certified reference materials will ensure the optimal calibration of your TOC analyzer per Veolia recommendations.

Veolia offers a full line of TOC and conductivity calibration standards for a variety of instruments and applications. For instruments designed for high-purity water applications, specially-prepared Sievers conductivity standards are available. For laboratory instruments, such as the Sievers M9, Sievers calibration sets include both inorganic carbon and total organic carbon standards.

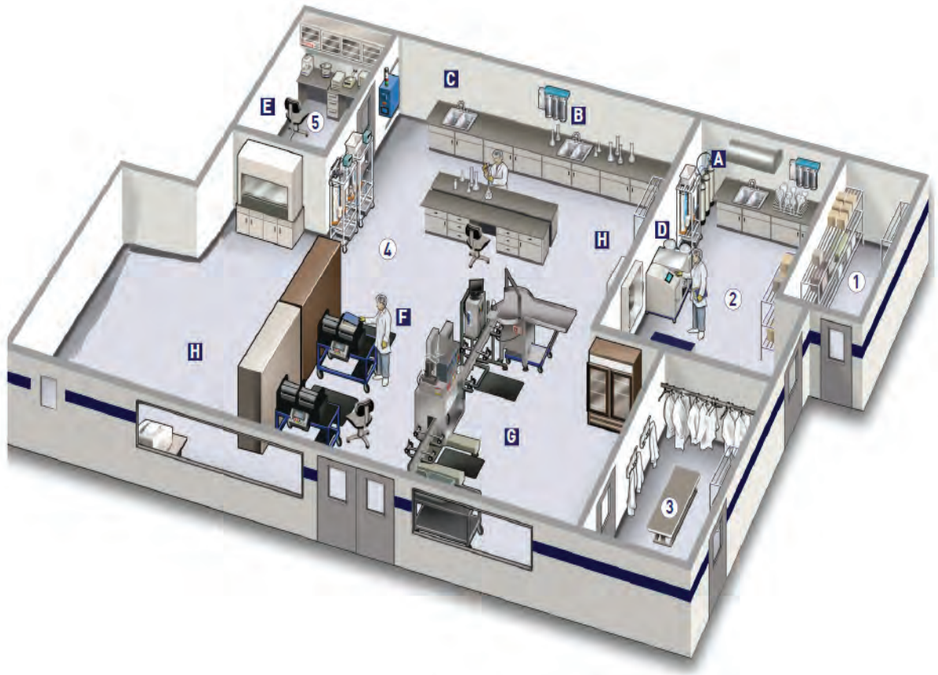
Verification Standards Sets

Verification standard sets are typically run if a change is made to the instrument or after maintenance. Calibration curve verification should be conducted on a regular basis with one or more standards within the linear range. Veolia offers a host of verification standards at concentrations across the operating range to demonstrate the accuracy and precision of the measurement system.

Validation Standards Sets

Validation standards are reference materials used for analytical instrument qualification. They help ensure that the measurement system meets specifications and that it is suitable for its intended purpose. Validation is a critical component of a quality management system, cGMPs, and regulatory compliance.

The Sievers validation standards sets comprehensively address Limit of Detection (LOD), Limit of Quantitation (LOQ), linearity, precision, accuracy, specificity, and robustness as detailed in Sievers validation documentation. Each standards set is specifically designed for the individual instrument and its application.



Production Facility Floor Plan

① Stock Room
② Glassware Cleaning Room
③ Pressurized Airlock
④ Main Clean Room Area
⑤ Weighing Room

Lab Equipment 3-Step Water System

A Pretreatment
B Primary Purification
C Proprietary Polishing
D Automated Glassware Cleaning
E Weighing Equipment
F Automatic Vial Fillers
G Vial Filling Station
H Airlock Pass-through Windows

Veolia Standards Production Lab

Committed to the highest quality, Veolia manufactures Sievers standards in a stringent cleanroom environment designed to ISO 8 specifications. Cleanroom and manufacturing processes have been designed to minimize contamination risks at each step in the production of the standards, using rigorous contamination control protocols, proprietary glassware cleaning methods, and custom-designed automated equipment.

Sievers Certified Reference Materials

The Sievers M-Series Analyzers offer unsurpassed ease of use, analytical performance, versatility, and reliability. Designed to meet diverse application needs and regulatory requirements, the M-Series is also fast, smart and versatile, allowing you to reach the peak of productivity. The M-Series is available in nine models—the Laboratory, the Online and the Portable versions of the M9 for the pharmaceutical industry, M9e for the semiconductor industry and M5310 C for the municipal water industry.

This section lists the most commonly ordered standards for the M-Series. See pages 33-37 for a comprehensive list of Sievers standards.

"We run two shifts in the QC laboratory to support the production of a multi-million dollar drug. We can't afford any mistakes with system suitability testing because it would slow down production. That's why we use Sievers standards."

- Analytical Chemistry Manager, API Manufacturer

Sievers M-Series Standards

How often should I conduct a system suitability test?

The frequency of system suitability testing is at the user's discretion, and really depends on the level of risk the user is willing to accept. Some users do a System Suitability Test before and after each batch, and some do weekly or monthly checks depending on their risk assessment. Veolia can help you design a test program that meets your internal needs and satisfies compendial requirements.

Veolia is the first company to offer reference materials to support the Japanese and Korean Pharmacopoeia TOC requirements.

Sievers M9 Portable TOC Analyzer

System Suitability and Compendial Standards

The United States Pharmacopeia (USP) Chapter <643>, European Pharmacopoeia (EP) Method <2.2.44>, Chinese Pharmacopoeia IV <0682>, and Indian Pharmacopoeia <2.4.30> require the analysis of sucrose and benzoquinone to demonstrate system suitability for TOC analysis. The Japanese and Korean Pharmacopoeia require the use of SDBS (Sodium dodecylbenzenesulfonate) as the test compound. Through its Sievers product line, Veolia offers certified reference materials to meet these test needs

The following are the most frequently used standards. For a full list, see pages 33–37.

System Suitability—(40-mL vials)

Part #	Description	Model
STD 31004-01	**System Suitability Set** Set includes (1) Rw - Reagent Water Blank, (1) Rs - Standard Solution, and (1) Rss - System Suitability Solution.	M9
STD 77004-01	**Sterile Water Suitability** Set includes three vials: (1) Rw - Reagent Water Blank, (1) Rs - 8 mg C/L as USP Sucrose and (1) Rss – 8 mg C/L as USP 1,4 Benzoquinone.	M9
STD 77007-01	**Sterile Water Suitability for Containers ≤5 mL** For customers whose sterile water is packaged in containers ≤5 mL. Set Includes (1) Reagent Water Control - Rw, (1) Standard Solution - Rs1 (32 mg C/L as USP Sucrose, Limit 1), (1) Standard Solution - Rs2 (48 mg C/L as USP Sucrose, Limit 2), and (1) System Suitability Solution - Rss (48 mg C/L as USP 1,4 Benzoquinone).	M9
STD 77006-01	**Sterile Water Suitability for Containers >5 mL and ≤100 mL** For customers whose sterile water is packaged in containers >5 mL and ≤100 mL. Set Includes (1) Reagent Water Control - Rw, (1) Standard Solution - Rs1 (24 mg C/L as USP Sucrose, Limit 1), (1) Standard Solution - Rs2 (36 mg C/L as USP Sucrose, Limit 2), and (1) System Suitability Solution - Rss (36 mg C/L as USP 1,4 Benzoquinone).	M9
STD 77005-01	**Sterile Water Suitability for Containers >100 mL** For customers whose sterile water is packaged in containers >100 mL. Set Includes (1) Reagent Water Control - Rw, (1) Standard Solution - Rs1 (8 mg C/L as USP Sucrose, Limit 1), (1) Standard Solution - Rs2 (12 mg C/L as USP Sucrose, Limit 2), and (1) System Suitability Solution - Rss (12 mg C/L as USP 1,4 Benzoquinone).	M9
STD 90039-01	**SDBS Suitability Set** Standard set to meet Japanese and Korean Pharmacopeia requirements for TOC analysis. This set contains (2) 40 mL glass vial standards: (1) Reagent water and (1) 500 mg C/L as SDBS. SDBS raw material compliant with JP testing requirements.	M9

Sievers M-Series (Continued)

Multi-Point Calibration Standards Sets—(40-mL vials †)

Part #	Description	Model
STD 77000-01	**M-Series Multi-Point Calibration Standards Set** Set includes: (1) Reagent Water Blank, (6) TOC Standards (250 µg C/L, 1, 5, 10, 25, 50 mg C/L TOC as KHP), and (1) IC Standard (10 mg C/L IC as $Na_2CO_3/NaHCO_3$).	All
STD 77014-01	**M9, M9e Turbo Multi-Point Calibration Standards Set** Set includes: (1) Reagent Water Blank, (5) TOC Standards (250, 500 µg C/L, 1, 3, 5 mg C/L TOC as KHP) and (1) IC Standard (choice of Low IC Standard and 2 mg C/L IC as $Na_2CO_3/NaHCO_3$; both included).	M9, M9e

Single Point Calibration Standards Sets—(40-mL vials †)

Part #	Description	Model
STD 90001-01	**Single Point Calibration Standards Set—1-mg/L** Set includes: (1) Reagent Water Blank, (1) 1 mg C/L TOC Standard (as KHP), and (1) 1 mg C/L IC Standard (as $Na_2CO_3/NaHCO_3$).	All
STD 90002-01	**Single Point Calibration Standards Set—5-mg/L** Set Includes: (1) Reagent Water Blank, (1) 5 mg C/L TOC Standard (as KHP) and (1) 5 mg C/L IC Standard (as $Na_2CO_3/NaHCO_3$).	All
STD 90003-01	**Single Point Calibration Standards Set—10-mg/L** Set Includes: (1) Reagent Water Blank, (1) 10 mg C/L TOC Standard (as KHP) and (1) 10 mg C/L IC Standard (as $Na_2CO_3/NaHCO_3$).	All
STD 77026-01	**M9 Conductivity Calibration Standard** Set includes: (1) 1.4 mS/cm (as KCl) in 30 mL specialty Dual Use Conductivity and TOC vial.	M9, M9e
STD 74470-01	**Single Point Conductivity Calibration Standard - 100 µS/cm KCl** Set includes: (1) 100 µS/cm Standard (as KCl) in 30 mL specialty Dual Use Conductivity and TOC vial.	M9, M9e*

† Unless otherwise stated.
* Applies to firmware version 2.x and higher

Sievers M-Series (Continued)

TOC and Conductivity Verification Sets
Verification Standards - (40-mL vials †)

Part #	Description	Model
STD 90007-01	**Single Point Verification Set, 500 µg/L** Set includes: (1) Reagent Water Blank, (1) 500 µg C/L TOC Standard (as Sucrose), and (1) 500 µg C/L IC Standard (as $Na_2CO_3/NaHCO_3$).	All
STD 90008-01	**Single Point Verification Set, 1 mg/L** Set includes: (1) Reagent Water Blank, (1) 1 mg C/L TOC Standard (as Sucrose) and (1) 1 mg C/L IC Standard (as $Na_2CO_3/NaHCO_3$).	All
STD 90009-01	**Single Point Verification Set, 2 mg/L** Set includes: (1) Reagent Water Blank, (1) 2 mg C/L TOC Standard (as Sucrose), and (1) 2 mg C/L IC Standard (as $Na_2CO_3/NaHCO_3$).	All
STD 90010-01	**Single Point Verification Set, 5 mg/L** Set includes: (1) Reagent Water Blank, (1) 5 mg C/L TOC Standard (as Sucrose) and (1) 5 mg C/L IC Standard (as $Na_2CO_3/NaHCO_3$).	All
STD 90011-01	**Single Point Verification Set, 10 mg/L** Set includes: (1) Reagent Water Blank, (1) 10 mg C/L TOC Standard (as Sucrose) and (1) 10 mg C/L IC Standard (as $Na_2CO_3/NaHCO_3$).	All
STD 90031	**Municipal TOC Verification Set** Set Includes: (1) 1 mg C/L, (1) 5 mg C/L and (1) 10 mg C/L TOC Standard (as KHP).	M5310 C
STD 77015-01	**M9, M9e Turbo Verification Set** Set includes: (1) Reagent Water Blank, (1) 2 mg C/L TOC Standard (as Sucrose), (1) Low IC Standard and (1) 2 mg C/L IC Standard (as $Na_2CO_3/NaHCO_3$).	M9, M9e
STD 77200-01	**M-Series Autoreagent Verification Set** Set includes: (1) 10 mg C/L and (1) 25 mg C/L TOC Standard (as KHP).	All
STD 77030-01	**M9 Conductivity Verification Standard - 25 µS/cm HCl** Set includes: (1) 25 µS/cm (as HCl) in 30 mL specialty Dual Use Conductivity and TOC vial.	M9, M9e
STD 77050-01	**M9 Conductivity Verification Standard - 100 µS/cm KCl** Set includes: (1) 100 µS/cm (as KCl) in 30 mL specialty Dual Use Conductivity and TOC vial.	M9, M9e*

† Unless otherwise stated.
* Applies to firmware version 2.x and higher

Sievers M-Series (Continued)

TOC and Conductivity Validation Sets
Validation Standards - (40-mL vials†)

Part #	Description	Model
STD 31013-01	**Accuracy/Precision Set, 500 µg/L** Set includes: (1) Reagent Water Blank and (1) 500 µg C/L (as USP Sucrose) Standard Solution.	M9, M9e
STD 77013-01	**Accuracy/Precision Set, 8 mg/L** Set includes: (1) Reagent Water Blank and (1) 8 mg C/L (as USP Sucrose) Standard Solution.	M9
STD 77001-01	**M9 Validation Set with Calibration and Verification** Set includes: (1) Single Point Calibration Set at 1 mg C/L, (1) Single Point Verification Set at 500 µg C/L, (2) System Suitability Sets, (1) Linearity Set, (1) Accuracy and Precision Set, (1) Robustness Set, and (1) Specificity Set	M9
STD 31012-01	**Linearity Standards Set** Set includes: (1) Reagent Water Blank and (1) each 250 µg C/L, 500 µg C/L, 750 µg C/L as USP Sucrose.	M9, M9e
STD 74409-01	**Specificity Standards Set** Set includes: (1) Reagent Water Blank, (1) 500 µg C/L as Methanol, (1) 500 µg C/L as Nicotinamide, and (1) 500 µg C/L as KHP.	M9
STD 90037-01	**Robustness Standards Set** Set includes: (1) Reagent Water Blank (Rw), (1) Standard Solution - Rs (500 µg C/L as USP Sucrose), and (1) System Suitability Solution - Rss (500 µg C/L as USP 1,4-Benzoquinone). Rw, Rs, and Rss standards are non-acidified.	M9
STD 74472-01	**Conductivity Linearity Standards Set** Set includes: (1) each 5 µS/cm, 10 µS/cm, 25 µS/cm, 50 µS/cm, 100 µS/cm Standards as KCl in 30 mL specialty Dual Use Conductivity and TOC vials.	M9, M9e*
STD 77051-01	**M9 Conductivity Validation Kit** Set includes: (1) Single Point Conductivity Calibration Set at 100 µS/cm, (1) Conductivity Verification Set at 100 µS/cm, and (1) Conductivity Linearity Set.	M9*

Certified TOC and conductivity sample vials are also available for Sievers and other instruments.
See page 27 - 30 for more information.

Sievers M500 Series Standards

Convenient Super Integrated Online Sampler (Super iOS) 4-port Sampler

The M500 Super iOS design builds upon the 500 RL legacy by enabling grab sampling in addition to the efficiency realized with protocol sets. The Super iOS allows you to plug in the combined reference standard set, start the protocol, and walk away. When grab samples need to be analyzed, you no longer have to wait for the lab to analyze samples and report results. You can run up to four grab samples on the floor and get faster results to drive quicker decisions.

Sievers M500 TOC Analyzers

The Sievers M500 is our third generation online TOC analyzer designed for accuracy, efficiency, and integrity. This reagentless analyzer continuously monitors organics in ultrapure water for pharmaceutical, microelectronics, semiconductor, and power applications.

The M500 with Super iOS model offers standards unique to the Sievers product line. Our patented and convenient Super iOS vial set cartridges are pre-loaded with Sievers standards and configured for a variety of protocols, including system suitability. The Super iOS automatically sequences through the various vials for a protocol unattended. The Sievers Super iOS enables the confidence and reliability of lab-based system suitability testing in an online analyzer.

The following are the most frequently used standards. For a full list, see pages 33–37.

Standards for the M500 with Super iOS System Suitability and Compendial Standards—(40-mL vials †)

Part #	Description
STD 74552-01	**M500 Super iOS System Suitability Set** Set Includes (1) Reagent Water Blank - Rw, (1) Standard Solution - Rs (500 µg C/L as USP Sucrose), and (1) System Suitability Solution - Rss (500 µg C/L as USP 1,4 Benzoquinone).
STD 74529-01	**M500 Super iOS SDBS Suitability Set** SDBS Suitability Set that meets Japanese and Korean Pharmacopoeia TOC Requirements. Set Includes (1) Reagent Water Blank – Rw and (1) 500 µg C/L as SDBS standard in 30 mL specialty Dual Use Conductivity and TOC vials.

Multi-Point Calibration Sets - (40 mL vials †)

Part #	Description
STD 74524	**M500/500 RL Super iOS Multi-Point Calibration Set** Multi-Point Calibration Set A and B for the Sievers M500 TOC Analyzer with Super iOS. Set includes: (3) Reagent Water Blanks and (3) TOC Standards (500 µg C/L, 1.0 mg C/L, 1.5 mg C/L as KHP).
STD 74573-01	**M500 Super iOS Multi-Point Conductivity Calibration Set** Multi-Point Conductivity Calibration Set for the Sievers M500 TOC Analyzer with Super iOS. Set includes: (1) each 100 µS/cm, 146.9 µS/cm, and 718 µS/cm Standards as KCl in 30 mL specialty Dual Use Conductivity and TOC vials.

† Unless otherwise stated

Sievers M500 Series (Continued)

Single Point Calibration Sets (40-mL vials and 30-mL vials)

Part #	Description
STD 74505	**M500/500 RL Super iOS Single Point Calibration Set A** Single Point Calibration Set A for the Sievers M500 TOC Analyzer with Super iOS. Set includes: (2) Reagent Water Blanks and (1) 1.5 mg C/L TOC Standard (as KHP).
STD 74570-01	**M500 Super iOS Single Point Conductivity Calibration Set** Single Point Conductivity Calibration Set for the Sievers M500 TOC Analyzer with Super iOS. Set includes: (1) 100 µS/cm Standard (as KCl) in 30 mL specialty Dual Use Conductivity and TOC vial.

Validation Sets (40-mL vials and 30-mL vials)

Part #	Description
STD 78532-01	**M500 Super iOS Single Point Validation Set** Validation Standards Set with Single Point Calibration for the Sievers M500 TOC Analyzer with Super iOS. Includes: (1) Single Point Calibration Set, (2) Accuracy/Precision Verification Sets, (1) System Suitability Set, (1) TOC Linearity Set, (1) Robustness Set, (1) Specificity Set, (1) Single Point Conductivity Calibration Set (100 µS/cm), (2) Conductivity Verification Sets (25 µS/cm), and (1) Conductivity Linearity Set.
STD 78534-01	**M500 Super iOS Multi-Point Validation Set** Validation Standards Set with Multi-Point Calibration Set A and B for the Sievers M500 TOC Analyzer with Super iOS. Includes: (1) Multi-Point Calibration Set A and B, (2) Accuracy/Precision Verification Sets, (1) System Suitability Set, (1) TOC Linearity Set, (1) Robustness Set, (1) Specificity Set, (1) Single Point Conductivity Calibration Set (100 µS/cm), (2) Conductivity Verification Sets (25 µS/cm), and (1) Conductivity Linearity Set.
STD 74553-01	**M500 Super iOS 5-Point Linearity Set** Five-Point Linearity Set for the Sievers M500 TOC Analyzer with Super iOS. Includes: (1) Reagent Water Blank and (1) each 250 µg C/L, 500 µg C/L, 750 µg C/L, 1 mg C/L, and 1.25 mg C/L TOC Standards (as KHP).
STD 74509-01	**M500/500 RL Super iOS Specificity Set** Specificity Set for the Sievers M500 TOC Analyzer with Super iOS. Includes: (1) Reagent Water Blank, (1) 500 µg C/L as Methanol, (1) 500 µg C/L as Nicotinamide, and (1) 500 µg C/L as KHP.
STD 74554-01	**M500 Super iOS Robustness Set** Robustness Set for the Sievers M500 TOC Analyzer with Super iOS. Set Includes (1) Reagent Water Blank - Rw, (1) Standard Solution - Rs (500 µg C/L as USP Sucrose), and (1) System Suitability Solution - Rss (500 µg C/L as USP 1,4 Benzoquinone). Rw, Rs, and Rss standards are non-acidified and are packaged in 30 mL specialty Dual Use Conductivity and TOC vials.
STD 74572-01	**M500 Super iOS Conductivity Linearity Set** Conductivity Linearity Set for the Sievers M500 TOC Analyzer with Super iOS. Set includes:(1) each 5 µS/cm, 10 µS/cm, 25 µS/cm, 50 µS/cm, and 100 µS/cm Standards as KCl in 30 mL specialty Dual Use Conductivity and TOC vials.

Sievers M500 Series (Continued)

Accuracy/Precision Verification Sets (40-mL vials and 30-mL vials)

Part #	Description
STD 74507	**M500/500 RL Super iOS Accuracy/Precision Verification Set** Accuracy/Precision Verification Set for the Sievers M500 TOC Analyzer with Super iOS. Set includes: (1) Reagent Water Blank and (1) 500 µg C/L TOC Standard (as Sucrose).
STD 74571-01	**M500 Super iOS Conductivity Verification Set** Conductivity Verification Set for the Sievers M500 TOC Analyzer with Super iOS. Set includes: (1) 25 µS/cm Standard (as KCl) in 30 mL specialty Dual Use Conductivity and TOC vial.

Standards for the M500 with Standard iOS

Part #	Description
STD 74452-01	**M500 System Suitability Set – Standard iOS**
STD 74429-01	**M500 SDBS Suitability Set – Standard iOS**
STD 74624	**M500/500 RL Multi-Point Calibration Set – Standard iOS**
STD 74473-01	**M500 Multi-Point Conductivity Calibration Set – Standard iOS**
STD 74405	**M500/500 RL Single Point Calibration Set A – Standard iOS**
STD 74470-01	**M500 Single Point Conductivity Calibration Set – Standard iOS**
STD 74407	**M500/500 RL Accuracy/Precision Verification Set – Standard iOS**
STD 74471-01	**M500 Conductivity Verification Set – Standard iOS**
STD 78632-01	**M500 Single Point Validation Set – Standard iOS**
STD 78634-01	**M500 Multi-Point Validation Set – Standard iOS**
STD 74453-01	**M500 5-Point Linearity Set – Standard iOS**
STD 74409-01	**M500/500 RL Specificity Set – Standard iOS**
STD 74454-01	**M500 Robustness Set – Standard iOS**
STD 74472-01	**M500 Conductivity Linearity Set – Standard iOS**

Sievers 500 RL Series Standards

The Sievers 500 RL and 500 RLe Online Total Organic Carbon (TOC) Analyzers are reagentless analyzers designed to continuously monitor organics in ultrapure water for pharmaceutical, microelectronics, semiconductor, and power applications.

The following are the most frequently used standards. For a full list, see pages 33–37.

Sievers 500 RL Online TOC Analyzer

Standards for the 500 RL with Super iOS System Suitability and Compendial Standards—(40-mL vials †)

Part #	Description
STD 74503	**500 RL with Super iOS System Suitability Set** Set Includes (1) Reagent Water Blank - Rw, (1) Standard Solution - Rs (500 µg C/L as USP Sucrose), (1) System Suitability Solution - Rss (500 µg C/L as USP 1,4-Benzoquinone), and (1) Rinse Water Standard.
STD 74529-01	**500 RL with Super iOS SDBS Suitability Set** SDBS Suitability Set that meets Japanese and Korean Pharmacopoeia TOC Requirements. Set Includes (1) Reagent Water Blank – Rw and (1) 500 µg C/L as SDBS standard in 30 mL specialty Dual Use Conductivity and TOC vials.

Multi-Point Calibration Sets—(40-mL vials and 30-mL vials)

Part #	Description
STD 74514	**500 RL with Super iOS Multi-Point Calibration Set** Multi-Point Calibration Set A and B for Sievers 500 RL TOC Analyzer with Super iOS. Set includes: (3) Reagent Water Blanks, (3) TOC Standards (500 µg C/L, 1.0 mg C/L, 1.5 mg C/L as KHP) and (1) 25 µS/cm Conductivity Standard (as HCl).

Single Point Calibration Sets—(40-mL vials and 30-mL vials)

Part #	Description
STD 74501	**500 RL with Super iOS Single Point Calibration Set** Single Point Calibration Set A for Sievers 500 RL TOC Analyzer with Super iOS. Set includes: (2) Reagent Water Blanks, (1) 1.5 mg C/L TOC Standard (as KHP) and (1) 25 µS/cm Conductivity Standard (as HCl).
STD 77035-01	**Conductivity Standard** Conductivity Standard for the Sievers 500 and CheckPoint Series. This standard consists of (1) 25 µS/cm Conductivity Standard (as HCl) in a 30 mL specialty Dual Use Conductivity and TOC vial.

Accuracy/Precision Verification Sets—(40-mL vials and 30-mL vials)

Part #	Description
STD 74502	**500 RL with Super iOS Accuracy/Precision Verification Set** Accuracy/Precision Verification Set for the Sievers 500 RL TOC Analyzer with Super iOS. Includes (1) Reagent Water Blank, (1) 500 µg C/L TOC Standard (as Sucrose) and (1) 25 µS/cm Conductivity Standard (as HCl).
STD 74507	**500 RL with Super iOS Accuracy/Precision Verification Set (TOC Only)** Accuracy/Precision Verification Set for the Sievers 500 RL TOC Analyzer with Super iOS. Includes (1) Reagent Water Blank and (1) 500 µg C/L TOC Standard (as Sucrose). Not compatible with 500 RL instruments equipped with the conductivity option.

† Unless otherwise stated

Sievers 500 RL Series (Continued)

Validation Sets (40-mL vials and 30-mL vials)

Part #	Description
STD 74513	**500 RL with Super iOS Single Point Validation Set** Validation Standards Set with Single Point Calibration Set A for the Sievers 500 RL TOC Analyzer with Super iOS. Includes: (1) Single Point Calibration Set, (2) Accuracy/Precision Verification Sets, (1) System Suitability Set, (1) Linearity Set, (1) Robustness Set, and (1) Specificity Set.
STD 74515	**500 RL with Super iOS Multi-Point Validation Set** Validation Standards Set with Multi-Point Calibration Set A and B for the Sievers 500 RL TOC Analyzer with Super iOS. Includes: (1) Multi-Point Calibration Set, (2) Accuracy/Precision Verification Sets, (1) System Suitability Set, (1) Linearity Set, (1) Robustness Set, and (1) Specificity Set.
STD 74506	**500 RL with Super iOS Linearity Set** Linearity Set for the Sievers 500 RL TOC Analyzers with Super iOS. Includes (1) Reagent Water Blank and (1) each 250 µg C/L, 500 µg C/L, and 750 µg C/L as KHP.
STD 74509-01	**500 RL with Super iOS Specificity Set** Specificity Set for the Sievers 500 RL TOC Analyzers with Super iOS. Includes (1) Reagent Water Blank, (1) 500 µg C/L as Methanol, (1) 500 µg C/L as Nicotinamide, and (1) 500 µg C/L as KHP.
STD 74508-01	**500 RL with Super iOS Robustness Set** Robustness Standard Set for the Sievers 500 RL TOC Analyzers with Super iOS. Includes (1) Reagent Water Blank - Rw, (1) Standard Solution - Rs (500 µg C/L as USP Sucrose), (1) System Suitability Solution - Rss (500 µg C/L as USP 1,4 Benzoquinone), and (1) Flush Standard. Rw, Rs, and Rss standards are non-acidified and are packaged in 30 ml specialty Dual Use Conductivity and TOC vials. The Flush Standard is non-acidified and packaged in a 40 ml glass vial.

Standards for the 500 RL with Standard iOS

Part #	Description
STD 74403	**500 RL System Suitability Set—Standard iOS**
STD 74429-01	**500 RL SDBS Suitability Set—Standard iOS**
STD 74614	**500 RL Multi-Point Calibration Set—Standard iOS**
STD 74401	**500 RL Single Point Calibration Set A—Standard iOS**
STD 74402	**500 RL Accuracy/Precision Verification Set—Standard iOS**
STD 74613	**500 RL Single Point Validation Set—Standard iOS**
STD 74615	**500 RL Multi-Point Validation Set—Standard iOS**
STD 74406	**500 RL Linearity Set—Standard iOS**
STD 74408-01	**500 RL Robustness Set—Standard iOS**
STD 74409-01	**500 RL/900 Specificity Set—Standard iOS**

CheckPoint Pharma and CheckPoint[e] Standards

The affordable CheckPoint Pharma and CheckPoint[e] Online/Portable Total Organic Carbon (TOC) Sensors provide unsurpassed flexibility in measuring low-level TOC online for microelectronics, pharmaceutical, and power applications. They can be used online for continuous monitoring or hand-carried to any point in a water system for rapid diagnostic sampling and troubleshooting.

The following are the most frequently used standards for the CheckPoint. For the full list of standards, please see page 33—37.

CheckPoint Portable/Online TOC Sensor

System Suitability Standards—(30-mL DUCT vials)

Part #	Description
STD 31003-04	**System Suitability Set** Set includes: (1) Rw—Reagent Water Blank, (1) Rs—Standard Solution and (1) Rss—System Suitability Solution.

TOC and Conductivity Calibration Standards—(30-mL DUCT vials)

Part #	Description
STD 97010-02	**TOC Calibration Set** Set includes: (1) Reagent Water Blank and (1) 500 µg C/L TOC Standard (as Sucrose).
STD 77035-01	**Conductivity Standard** Conductivity Standard for the Sievers 500 and CheckPoint Series. This standard consists of (1) 25 µS/cm (as HCl) in a 30 mL specialty Dual Use Conductivity and TOC vial.

Performance Qualification Standards—(30-mL DUCT vials)

Part #	Description
STD 97006-02	**TOC Linearity Set** Set includes: (1) Reagent Water Blank and (1) each of 250 µg C/L, 375 µg C/L, and 500 µg C/L as Sucrose.

InnovOx Laboratory and Online TOC Analyzer Standards

InnovOx Online and Laboratory TOC Analyzers

The Sievers InnovOx Laboratory and Online Total Organic Carbon (TOC) Analyzers represent a true breakthrough in high TOC measurement technology and reliability. The InnovOx can consecutively handle thousands of common samples - as well as difficult samples such as brine and cellulose - with unprecedented system uptime. The InnovOx offers unparalleled oxidation robustness, a dynamic linear working range of 0.05 to 50,000 ppm, and calibration curve stability for TOC analysis of process, environmental, and wastewater samples.

The following are the most frequently used standards for the InnovOx. For the full list of standards, please see page 33–37.

When ordering, please use the applicable part number and quantity.

TOC & IC Calibration Standards—(250-mL bottles)

Part #	Description
STD 68310-01	**Calibration—100-mg/L** Set includes: (1) 250 mL bottle containing 100 mg C/L as KHP.
STD 68410-01	**Calibration—1,000-mg/L** Set includes: (1) 250 mL bottle containing 1,000 mg C/L as KHP.
STD 68450-01	**Calibration—5,000-mg/L** Set includes: (1) 250 mL bottle containing 5,000 mg C/L as KHP.
STD 68520-01	**Calibration—20,000-mg/L** Set includes: (1) 250 mL bottle containing 20,000 mg C/L as KHP.
STD 68100-01	**Calibration—Reagent Water** Set includes: (1) 250 mL bottle containing Reagent Water (<0.1 ppm at preparation).
STD 68620-02	**IC Calibration—100 mg/L** Set includes: (1) 250 mL bottle containing 100 mg C/L as Sodium Carbonate/Bicarbonate.

TOC Calibration and Verification Standards—(250-mL bottles)

Part #	Description
STD 68020-02	**Calibration and Verification Kit—0 to 1,000-ppm range** Set includes: 250 mL bottles with the following standards: Calibration - Reagent Water, 1 mg C/L as KHP, 10 mg C/L as KHP, 25 mg C/L as KHP, 100 mg C/L as KHP, 1,000 mg C/L as KHP. Verification - 50 mg C/L as Sucrose, 500 mg C/L as Sucrose.
STD 68551-01	**Calibration and Verification—50,000-mg/L** Set includes: (1) 250 mL bottle containing 50,000 mg C/L as Sucrose.

Check Standards and System Verifications

Manufacturing operations must evaluate and mitigate the risk of defects or excursions. Part of the mitigation plan should include regular verification of monitoring equipment to ensure accuracy. The frequency of verification is based on many factors, including cost of undetected defects, potential scrap, production downtime, and cost and complexity of the verification process itself. Sievers certified reference standards can be used to bracket TOC or conductivity samples daily or weekly to establish a defined period or number of samples that could be subject to intervention actions in the event of monitoring system drift or failure. Our extensive portfolio provides a wide range of options based on your typical operating range and system needs.

For more information, please reach out to us at sievers.customercare@veolia.com to determine the best fit for your application.

Concentration	KHP	Sucrose
250/500/750 ppb	✓	✓
1 ppm	✓	✓
1.25 ppm	✓	✓
1.5 ppm	✓	
2 ppm	✓	✓
3 ppm	✓	
5 ppm	✓	✓
7 ppm		✓

Concentration	KHP	Sucrose
8 ppm		✓
10 ppm	✓	✓
12 ppm		✓
24 ppm		✓
25 ppm	✓	✓
36 ppm		✓
48 ppm		✓
50 ppm	✓	✓

Custom Reference Materials For All TOC Instruments

By utilizing Sievers certified reference standards, Veolia relieves the burden and risks associated with manufacturing standards, including maintaining required equipment, training, and material supply chain. Veolia has the expertise to develop and produce custom standards for challenging and unique applications with consistently high quality and on-time delivery. If you need standards that are not listed within this catalog, please contact us.

To fulfill your custom standard set request, please provide the following information:

- Source material (USP/NIST Sucrose, KHP, etc.) and desired concentration
- Instrument make/model for which the standard will be used
- Container — container size and type (glass 40 mL vials, for example)
- Order quantity

Sievers standards are also compatible with most other laboratory-based TOC analyzers, such as:

- Shimadzu
- OI Analytical
- Skalar
- Teledyne-Tekmar
- Hach/Beckman Coulter
- Analytik Jena

For more information, please contact us at www.sieversinstruments.com or see page 39 for other options.

Please send your request to sievers.customercare@veolia.com or see page 39 for other contact options.

Convenience of Ready-Made Standards

Producing standards in-house that comply with regulations and quality systems can be a challenge. Organizations must consider and control many variables, such as:

- Technician skill, training, and consistency of performance
- Standard Operating Procedure (SOP) adherence and development
- Equipment validation and maintenance
- Purity of reagent water
- Purity of raw material
- Use of dedicated glassware and cleanliness of glassware
- Cleanliness of vials
- Documentation development and maintenance for NIST traceability, GLPs, and/or cGMPs

Many organizations have eliminated these variables and the costs, time, and complexity associated with in-house standards production by using Sievers certified reference materials. They benefit from having reliable, ready-to-use standards at hand as needed, eliminating potential production delays and reductions in throughput.

Sievers Eclipse

Sievers Eclipse Bacterial Endotoxins Testing (BET) Platform

The Eclipse BET Platform utilizes a unique microfluidic liquid handling micro-plate. The microfluidic technology allows for precise measurement, distribution, and mixing of samples, standards, and Limulus Amebocyte Lysate (LAL). The microplate has a pre-loaded Reference Standard Endotoxin (RSE) standard curve, which significantly reduces analyst hands-on time.

The following are the most frequently used consumables.
For the full list of consumables, reagents, and replacement parts, please see pages 33-37.

Eclipse Microplates, Reagents, and Accessories

Compliant, consistent, conscious bacterial endotoxins testing

The Eclipse platform achieves automation and precision in BET assays without sacrificing compliance, reaction biochemistry, or footprint in the lab. Using embedded endotoxin standards and positive product controls (PPCs) with <30 pipetting steps, the patented Sievers Eclipse microplate delivers automation without the complexity or expense of robotics.

Breakthrough technology that delivers automation and compliance

The innovative Sievers Eclipse platform decreases assay setup time by up to 85% and reduces Limulus Amebocyte Lysate (LAL) reagent use by up to 90% while meeting all requirements of the harmonized pharmacopoeia: USP <85>, EP 2.6.14, and JP 4.01. Through groundbreaking technology, the Eclipse platform significantly decreases pipetting steps, reduces operator-to-operator variability, and simplifies assay setup. The Eclipse platform leverages precise microfluidic liquid handling and embedded endotoxin to automate kinetic chromogenic assays. Throughput of 21 samples per plate is maintained without the complexity of robotics or the time and technique demands of a traditional assay.

Eclipse Microfluidic Liquid Handling Microplates

Part #	Description
APK 85910-02	**Eclipse Microplates – 5 plates/pack** Pack of (5) microplates. Each microplate contains: 21 sample segments with 0.5 EU/mL PPCs and 5 standard curve segments pre-deposited with RSE from 50-0.005 EU/mL, each with a negative control well.
APK 85900-02	**Eclipse Microplates – 1 plate/pack** Contains (1) microplate. Microplate contains: 21 sample segments with 0.5 EU/mL PPCs and 5 standard curve segments pre-deposited with RSE from 50-0.005 EU/mL, each with a negative control well.

Sievers Eclipse BET Analyzer

Eclipse Microplates, Reagents, and Accessories

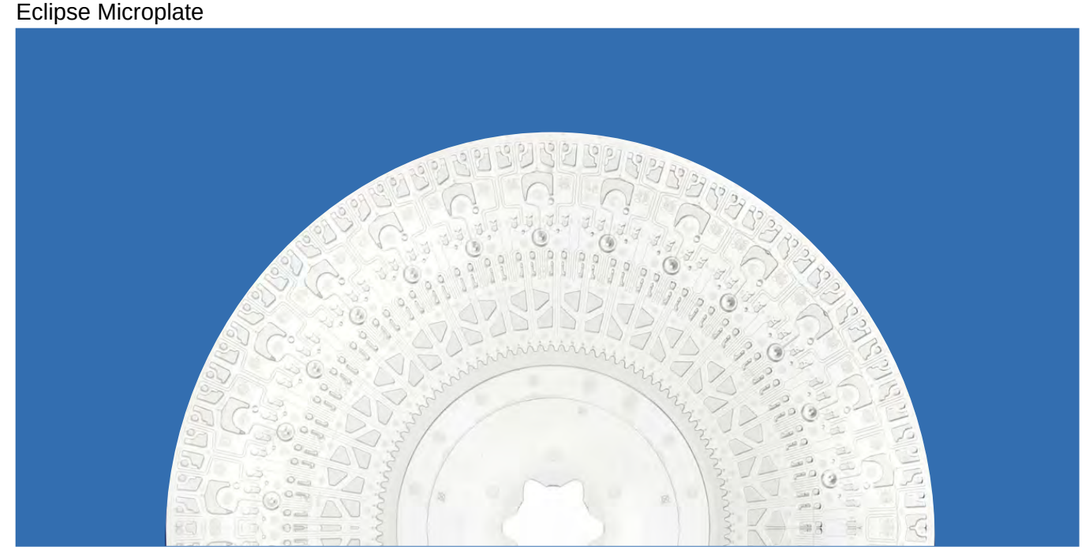
Eclipse BET Reagents

Part #	Description
STD 85020-01	**Eclipse Microfluidic Solution** Kit includes: (1) 10 mL vial of microfluidic solution for bacterial endotoxin testing, certified to <0.005 EU/mL endotoxin.
STD 85000-01	**1:1 Ratio Verification Kit** 1:1 Ratio Verification Kit to verify a precise 1:1 ratio is achieved when samples are mixed with LAL across all optical wells. Kit includes: (1) vial of Eclipse Dye and (1) vial of Eclipse Dilution Water.

Eclipse BET Accessories

Part #	Description
HMI 85905-01	**Certified 1000 µL Pipette Tips** Certified 1000 µL pipette tips free of interfering endotoxin, 96 tips/box.
HMI 85904-02	**Certified 200 µL Pipette Tips** Certified 200 µL pipette tips free of interfering endotoxin, 96 tips/box.
APK 85400-02	**Optical Verification Plate (OVP)** Verification plate for Eclipse Analyzer's optical density (OD) measurements.
APK 85300-01	**Temperature Verification Plate (TVP)** Verification plate for Eclipse Analyzer's temperature measurements.

Eclipse Microplate



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TOC and Conductivity Sample Vials, Containers, and Cleaning Validation Kits

Increasing costs, time, and regulatory pressures have made it essential for companies to obtain Total Organic Carbon (TOC) and conductivity results with the first analysis. Companies simply cannot afford to repeat analyses that have been compromised due to vial contamination.

Through its Sievers product line, Veolia offers pre-cleaned TOC vials designed to give you confidence in the quality of your TOC measurements. These vials are reliable, economical, and scrupulously cleaned and certified to be below 10 ppb. Our proprietary Dual Use Conductivity and TOC (DUCT) vials are certified for both TOC and conductivity, allowing for efficiency in water sample testing.

The following are the most frequently used vials.
For the full list of consumables, reagents, and replacement parts, please see pages 33-37.

Sievers Certified Pre-Acidified Vials

Save time and reduce cleaning sample failure rates with Sievers Pre-Acidified Vials. The use of acid has been proven to prevent sticky proteins and peptides from adhering to the surfaces of vials, improving the recovery of TOC in cleaning validation and verification applications. Our Pre-Acidified Vials contain precisely measured, high-quality acid to provide more accurate results and greater confidence in your TOC measurements when confirming cleaning efficacy.

Benefits include:

- Improve protein recoveries for cleaning validation applications
- Prevent adherence of proteins and peptides to vial surfaces
- Available in options for swab samples (pre-filled with acidified water) or for final rinse samples
- Simplified preparation and sampling process
- Certified and traceable
- Backed by our out-of-specification (OOS) investigation support

Part #	Description
HMI 90090-01	**Pre-Acidified TOC Vials, 40-mL, 72-case** Certified TOC Vials, 40-mL (HMI 90606) pretreated with phosphoric acid (20 µL of 85 wt% H_3PO_4) and certified to <35 ppb TOC, 72 per case.
HMI 90690-01	**Sievers Certified Blue Pre-Acidified TOC Vials, 40-mL, 72-case** Certified TOC Vials, 40-mL (HMI 90606) pretreated with phosphoric acid (20 µL of 85 wt% H_3PO_4) and certified to <35 ppb TOC, 72 per case. Includes a cleanroom sorbent pad, paper-free packaging, and is produced and packaged in an ISO 8 Cleanroom.
HMI 90691-01	**Filled Pre-Acidified Vial, 40 mL 0.072%, 4-pack** Certified TOC Vials, 40-mL (HMI 90606) filled with approximately 40 mL of 0.072% phosphoric acid, package of 4. Certified to < 85 ppb TOC.
HMI 90692-01	**Filled Pre-Acidified Vial, 20 mL 0.072%, single vial** Certified TOC Vials, 40-mL (HMI 90606) filled with approximately 20 mL of 0.072% phosphoric acid, single vial in Mylar bag. Certified to < 85 ppb TOC.
HMI 90693-01	**Filled Pre-Acidified Vial, 40 mL 0.085%, 4-pack** Certified TOC Vials, 40-mL (HMI 90606) filled with approximately 40 mL of 0.085% phosphoric acid, package of 4. Certified to < 85 ppb TOC.

Sample Vials, Containers, and Cleaning Validation Kits

Sievers Certified (<10 ppb TOC) Vials and (<50 ppb TOC) Sampling Swabs

Sievers Certified (<10 ppb[1]) TOC Vials are designed for use in critical pharmaceutical applications such as USP and EP Water testing as well as municipal water testing. Our certification to below 10 ppb gives you confidence in the quality of your TOC measurements. In addition, they are:

- Scrupulously cleaned in an ISO 9001 environment using a validated, automated process
- Manufactured by the global leader in TOC measurement technology and TOC standards
- Economical, with added savings on volume orders
- Reliable, with guaranteed performance
- Available in clean room-compatible configurations
- Dual Use TOC and Conductivity (DUCT) vials also certified for conductivity sampling

Sievers Certified TOC Vials are compatible with most TOC analyzer brands, including Sievers, Shimadzu, OI Analytical, Teledyne-Tekmar, and Skalar.

Part #	Description
HMI 77510-01	**Sievers Certified Blue Dual Use Conductivity & TOC Vials, 30-mL, 30-case** Pre-cleaned and certified (<10 ppb TOC and < 0.2 µS/cm conductivity), 30-mL specialty coated glass with caps and specialty septa, 30 per case. These vials are suitable for Stage 1 conductivity measurements and simultaneous TOC compliance testing. Paper free packaging, produced in an ISO 7 Cleanroom.
HMI 77530-01	**Sievers Certified Blue DUCT Clean Package Vials, 30-mL, 30-case, Triple Bagged** Pre-cleaned and certified (<10 ppb TOC and < 0.2 µS/cm conductivity), 30-mL specialty coated glass with caps and specialty septa, 30 per case. These vials are suitable for Stage 1 conductivity measurements and simultaneous TOC compliance testing. Paper free packaging that is triple bagged, produced in an ISO 7 Cleanroom. This product is designed for multi-entry use such as cleanrooms.
HMI 90610-01	**Sievers Certified Blue TOC Vials, 40-mL, 72-case** Pre-cleaned and certified (<10 ppb TOC) 40-mL glass vials with caps and Teflon-lined septa, 72-case. Paper free packaging, produced in an ISO 7 Cleanroom.
HMI 91210-01	**Sievers Certified Blue TOC Vials, 40-mL, 12-case** Pre-cleaned and certified (<10 ppb TOC) 40-mL glass vials with caps and Teflon-lined septa, 12-case. Paper free packaging, produced in an ISO 7 Cleanroom.
HMI 91230-01	**Sievers Certified Blue Clean Package Vials, 40-mL, 12-case, Triple Bagged** Pre-cleaned and certified (<10 ppb TOC) 40-mL glass vials with caps and Teflon-lined septa, 12-case. Paper free packaging that is triple bagged, produced in an ISO 7 Cleanroom. This product is designed for multi-entry use such as cleanrooms.
HMI 77500-01	**Certified Dual Use Conductivity & TOC Vials, 30-mL, 30-case** Pre-cleaned and certified (<10 ppb TOC and < 0.2 µS/cm conductivity), 30-mL specialty coated glass with caps and specialty septa, 30 per case. These vials are suitable for Stage 1 conductivity measurements and simultaneous TOC compliance testing.
HMI 90606	**Certified TOC Vials, 40-mL, 72-case** Pre-cleaned and certified (<10 ppb TOC) 40-mL glass vials with caps and Teflon-lined septa, 72 per case. These vials are the right choice for strict regulatory compliance testing.
HMI 90217-01	**Pre-cleaned 17-mL Glass Vials with Caps and Septa, 200-case** Pre-cleaned 17-mL glass vials with caps and Teflon-lined septa, 200 per case. Certified to <20 ppb TOC. Vial dimensions: 18 mm x 100 mm.

[1] The <10 ppb certification applies to empty 40-mL TOC & 30-mL DUCT vials.

Sample Vials, Containers, and Cleaning Validation Kits (continued)

Environmental, Municipal, and Process Sample Vials

Part #	Description
HMI 90707-01	**40-mL Sample Vials, 72-case** 40-mL glass vials with Teflon-lined septa, 72 per case. These are non-certified sample vials suitable for general process monitoring. They are guaranteed to <100 ppb TOC.
HMI 90708-01	**40-mL Amber Sample Vials, 72-case** 40-mL glass vials with Teflon-lined septa, 72 per case. These are non-certified sample vials suitable for general process monitoring especially for environmental water samples and samples that can be affected by light. They are guaranteed to <100 ppb TOC.

TOC Cleaning Validation Kits

Sievers TOC Cleaning Validation Kits feature low TOC background sampling swabs. Each kit includes 40-mL Sievers certified TOC Vials and low Alpha® Sampling Swabs. Alpha Sampling Swabs are manufactured and certified to assure extremely low-background TOC levels.

Part #	Description
APK 90600-01	**Cleaning Validation Kit** (72) Sievers Certified TOC Vials (<10 ppb TOC) and (80) Certified Sampling Swabs (<50 ppb TOC).
HMI 90600-01	**Cleaning Validation Swab Kit** (20) Certified Sampling Swabs (<50 ppb TOC).
HMI 90620-01	**Sievers Certified Blue Cleaning Validation Kit, Large** (72) Sievers Certified TOC Vials (<10 ppb TOC) and (80) Certified Sampling Swabs (<50 ppb TOC). Paper free packaging, vials produced in an ISO 7 Cleanroom.
HMI 91220-01	**Sievers Certified Blue Cleaning Validation Kit, Small** (12) Sievers Certified TOC Vials (<10 ppb TOC) and (20) Certified Sampling Swabs (<50 ppb TOC). Paper free packaging, vials produced in an ISO 7 Cleanroom.
HMI 77520-01	**Sievers Certified Blue Cleaning Validation Kit, DUCT** (30) Certified DUCT Vials (<10 ppb TOC and < 0.2 µS/cm conductivity) and (40) Certified Sampling Swabs (<50 ppb TOC). Paper free packaging, vials produced in an ISO 7 Cleanroom.

Sampling Swabs

Part #	Description
HMI 90602-01	**Cleaning Validation Swab, Double Bagged** (20) Certified Sampling Swabs (<50 ppb TOC). Pack is double bagged to allow outer bag to be wiped down.
HMI 90702-01	**Cleaning Validation Swab, Long Handle, Double Bagged** (20) Certified Sampling Swabs (<50 ppb TOC) with long handles (145 mm/5.7"). Pack is double bagged to allow outer bag to be wiped down.

Consumables, Reagents, and Replacement Parts

Veolia parts and reagents are designed and built to exact specifications for the Sievers product line of analyzers and sensors. We manage raw material purity through rigorous testing and control. Lot records, TOC background testing, and quality controls are in place to limit contamination. Each reagent comes with a Certificate of Analysis.

The following are the most frequently used consumables, reagents, and replacement parts. For the full list, see pages 33–37. When ordering kits, please use the applicable part number and quantity.

M-Series

Part #	Description
M9 MAINT	**M-Series Consumables Kit** 12-month Consumables Kit for the Sievers M-Series. Includes (4) Persulfate Reagents (150 mL each), (2) Acid Reagents, (2) UV Lamps, (2) Sample Pump Heads, and (1) Resin Cartridge.
APF 90310-02	**Acid Cartridge** 300 mL Acid Reagent Cartridge for the Sievers M-Series. Replacement recommended after 6 months.
APF 90150-02	**Oxidizer Cartridge, Low-Capacity** Low-capacity, 150 mL, Oxidizer Reagent Cartridge for the Sievers M-Series. Replace after 3 months of use.
APF 90300-02	**Oxidizer Cartridge, High-Capacity** High-capacity, 300 mL, Oxidizer Reagent Cartridge for the Sievers M-Series. Replace after 3 months of use.
ARK 35010-01	**UV Lamp, Replacement** UV Lamp for the Sievers M-Series. Lifetime of lamp is 6 months of operation.
APK 77250-01	**M-Series/M500 Resin Bed Replacement** Replacement Resin Cartridge for the Sievers M-Series and M500/M500e Analyzers.
APK 77207-01	**M-Series Sample Pump Heads** Two (2) Replacement Pump Heads for the Sievers M-Series Analyzers. The sample pump heads are replaced every 12 months.
APK 43040-02	**Degasser, Closed Chamber** Degassing Module for Inorganic Carbon Remover (ICR) used with M9 and M9e Laboratory and Portable units.
APK 43040-02	**Degasser, Open Chamber** Degassing Module for the Inorganic Carbon Remover (ICR) used with the M5310C Series On-Line units.

M500

Part #	Description
APK 78611-01	**M500/M500e UV Lamp Replacement** Replacement UV lamp for use with Sievers M500/M500e Analyzers. The UV lamp is replaced every 6 months.
APK 77250-01	**M-Series/M500 Resin Bed Replacement** Replacement Resin Cartridge for the Sievers M-Series and M500/M500e Analyzers.
APK 78626-01	**M500/M500e Sample Pump Heads** Replacement Sample Pump Heads for use with Sievers M500/M500e Analyzers. The sample pump heads are replaced every 12 months.
APK 78011-01	**M500/M500e Fan Filter Replacement** Replacement Fan Filter for use with Sievers M500/M500e Analyzers. The fan filter should be replaced every 6 months and can be cleaned as needed.

Consumables, Reagents, and Replacement Parts (continued)

InnovOx Series

Part #	Description
APK 68050-01	**Reagent $Na_2S_20_8$, 6-pack (Lab Analyzer Only)** Kit contains six (600g) pouches of dry sodium persulfate reagent. Each pouch makes 2L of 30% sodium persulfate solution.
APK 68051-01	**Reagent $Na_2S_20_8$, SIngle-pack (Lab Analyzer Only)** Kit contains one (600g) pouch of dry sodium persulfate reagent. Each pouch makes 2L of 30% sodium persulfate solution
APK 68052-01	**Reagent $Na_2S_20_8$, 8-pack (Online Analyzer Only)** Kit contains eight (500g) pouches of dry sodium persulfate reagent. Each pouch makes 3.5 Gallons of 30% sodium persulfate solution.
SCH 68100-01	**Hydrochloric Acid, 3N, 500-mL** Kit contains 0.5 liters of 3M HCl acid reagent for the InnovOx Analyzer. This container is drop shipped to the customer's location within USA only.
APK 68110-01	**InnovOx Reactor Seal Kit** Replacement seals for the high pressure valves. Kit contains (2) seals, one for each valve.
APK 68100-02	**InnoxOx Pinch Tubing Kit (Lab)** Replacement Pinch Tubing for Lab Analyzers.
APK 68865-02	**InnovOx Pinch Tubing Kit (Online)** Replacement Pinch Tubing for Online Analyzers.
HFL 68100-02	**InnovOx NDIR Filter, White** Replacement NDIR FIlter.
APK 68140-02	**InnovOx Gas Tubing Kit (Lab and Online)** Replacement Gas Tubing.
APK 68130-02	**InnovOx Waste Tubing Kit (Lab and Online)** Replacement Waste Tubing.
APK 68615-01	**InnovOx Boxer Sample Pump Tubing** Replacement Peristaltic Pump Tubing. For use on sample and reactor pumps.
APK 68205-01	**InnovOx Sample/Reactor Pump Head** Replacement Peristaltic Pump Head. For use on sample or reactor pumps.
APK 68555-01	**InnovOx Air Filter Cartridges** Replacement Air Filter Cartridge for optional air filter system (Lab Analyzer Only).
APK 68501-01	**InnovOx Lab Service Kit - Normal Application (Boxer Pump)** Kit contains all the required consumables for a year of operation. This kit is for normal applications and analyzers configured with Boxer Pumps.
APK 68502-01	**InnovOx Lab Service Kit - Harsh Application (Boxer Pump)** Kit contains all the required consumables for a year of operation. This kit is for harsh applications and analyzers configured with Boxer Pumps.
APK 68601-01	**InnovOx On-Line Service Kit - Harsh Application (Boxer Pump)** Kit contains all the required consumables for a year of operation. This kit is for harsh applications and analyzers configured with Boxer Pumps.
APK 68504-02	**InnovOx Air Filter Option (Year Supply)** Kit contains one year's supply of (4) replacement Air Filter Cartridges for optional air filter system (Lab Analyzer Only).

CheckPoint and CheckPoint^e

Part #	Description
ARK 35010-01	**UV Lamp, Replacement** UV Lamp for CheckPoint. Lifetime of lamp is 6 months of operation.
APK 97010-01	**CheckPoint Consumables Kit** (2) UV Lamps and (2) Pump heads.

Product Index

Sievers Certified Reference Materials

Endotoxin Microplates, Reagents, Accessories

Sample Vials, Containers, Cleaning Validation Kits

Consumables, Reagents, and Replacement Parts

Product Index

Sievers Certified Reference Materials & Reagents

Part #	Description	Model
STD 33001-02	HCl Rinse Solution	M500/500 RL
STD 74405	M500/500 Single Point Cal. Set A (TOC Only)	M500/500 RL
STD 74407	M500/500 Acc/Prec/Ver Set (TOC Only)	M500/500 RL
STD 74409-01	Specificity Set	M500/500 RL
STD 74429-01	M500/500 SDBS Suitability Set	M500/500 RL
STD 74450-01	M500e Low Level Cal Set	M500e
STD 74451-01	M500e Low Level Acc/Prec Set	M500e
STD 74452-01	M500 System Suitability Set	M500
STD 74453-01	M500 5-Point Linearity Set	M500
STD 74454-01	M500 Robustess Set	M500
STD 74456-01	M500 3-Point Linearity Set	M500
STD 74470-01	Conductivity Calibration, 100 µS/cm KCl	M500
STD 74471-01	M500 Conductivity Verification, 25 µS/cm KCl	M500
STD 74472-01	Conductivity Linearity Set	M500
STD 74473-01	M500 Multi-Point Conductivity Cal Set	M500
STD 74524	M500/500RL Super iOS Mulit-Point Calibration	M500/500 RL
STD 74552-01	M500 Super iOS System Suitability Set	M500
STD 74553-01	M500 Super iOS 5-Point Linearity Set	M500
STD 74554-01	M500 Super iOS Robustness Set	M500
STD 74556-01	M500 Super iOS 3-Point Linearity Set	M500
STD 74570-01	M500 Super iOS Conductivity Cal. 100 µS/cm KCL	M500
STD 74571-01	M500 Super iOS Conductivity Ver., 25 µS/cm KCl	M500
STD 74572-01	M500 Super iOS Conductivity Linearity Set	M500
STD 74573-01	M500 Multi-Point Conductivity Cal Set	M500
STD 77011-01	10 µS/cm KCl Condutivity Check Std	M500
STD 74505	M500/500 Super iOS Single Pt Cal A (TOC Only)	M500/500 RL
STD 74507	M500/500 Super iOS Acc/Prec/Ver (TOC Only)	M500/500 RL
STD 74509-01	M500/500 Super iOS Specificity Set	M500/500 RL
STD 74527-01	M500/500 Super iOS Rinse Vial Set	M500/500 RL
STD 74529-01	M500/500 Super iOS SDBS Suitability	M500/500 RL
STD 90080-01	Hydrogen Peroxide Rinse	M500/500 RL
STD 74401	500 RL Single Point Calibration Set A	500 RL
STD 74402	500 RL Acc/Prec/Ver Set	500 RL
STD 74403	500 RL System Suitability Set	500 RL
STD 74406	500 RL Linearity Set	500 RL
STD 74408-01	500 RL Robustness Set	500 RL
STD 74501	500 RL Super iOS Single Point Cal. Set A	500 RL
STD 74502	500 RL Super iOS Acc/Prec/Ver Set	500 RL
STD 74503	500 RL Super iOS System Suitability	500 RL
STD 74506	500 RL Super iOS Linearity Set	500 RL
STD 74508-01	500 RL Super iOS Robustness Set	500 RL
STD 77035-01	Conductivity Std	500 RL

Part #	Description	Model
STD 77000-01	M-Series Multi-Point Calibration Set	M9/M5310 C
STD 77200-01	M-Series Autoreagent Verification Set	M9/M5310 C
STD 77001-01	M9 Validation Set with Cal/Ver	M9
STD 77014-01	M9/M9e Turbi Multi-Pt Calibration Set	M9
STD 77015-01	M9/M9e Turbo Verification Set	M9
STD 74470-01	Conductivity Calibration, 100 µS/cm KCl	M9
STD 77050-01	Conductivity Verification, 100 µS/cm KCl	M9
STD 74472-01	Conductivity Linearity Set	M9
STD 77026-01	Conductivity Calibration, 1.4 mS/cm KCl	M9
STD 77030-01	Conductivity Verification, 25 µS/cm HCl	M9
STD 77011-01	10 µS/cm KCL Conductivity Check Std	M9
STD 30004-01	Standard Solution--Rs	M9/900
STD 30008-01	System Suitability Solution--Rss	M9/900
STD 31004-01	System Suitability Set	M9/900
STD 31007-01	System Suitability, Set of 2	M9/900
STD 31012-01	Linearity Standard Set	M9/900
STD 31013-01	Acc/Prec/Ver Set, 500 ppb	M9/900
STD 31015-01	1.25 mg/L Sucrose Set	M9/900
STD 33001-02	HCl Rinse Solution	M9/900
STD 74409-01	Specificity Set	M9/900
STD 77004-01	Sterile Water Suitability, 8 ppm	M9/900
STD 77005-01	Sterile Water Suitability, Containers > 100 mL	M9/900
STD 77006-01	Sterile Water Suitability, Containers > 5 mL and <=100 mL	M9/900
STD 77007-01	Sterile Water Suitability, Containers ≤ 5 mL	M9/900
STD 77013-01	Acc/Prec/Ver Set, 8 ppm	M9/900
STD 90007-01	Single Point Verification Set, 500 ppb	M9/900
STD 90037-01	Robustness Set	M9/900
STD 90039-01	SDBS Suitability Set	M9/900
STD 90044-01	System Suit + Rs	M9/900
STD 90046-01	TOC KHP Set, 1 ppm	M9/900
STD 90047-01	Low Level Linearity Set	M9/900
STD 90048-01	Extended Linearity Set	M9/900
STD 90049-01	Sucrose Set, Rw + 2 Rs	M9/900
STD 90050-02	Sucrose Set, 4 Rs	M9/900
STD 90051-01	Rw, 1 mg/L + 10 mg/L KHP	M9/900
STD 90052-01	System Suit + 1 mg/L KHP	M9/900
STD 90054-01	System Suit Cleaning Validation	M9/900
STD 90055-01	500 µg/L KHP Ver + H_2O_2 Rinse	M9/900
STD 91901-01	KHP Set of 2, 500 ppb	M9/900
STD 91903-01	KHP Set of 2, 5 ppm	M9/900
STD 91904-01	KHP Set of 2, 10 ppm	M9/900
STD 91905-01	KHP Set of 2, 25 ppm	M9/900
STD 99001-01	M9/900 KHP Set, 5 ppm	M9/900
STD 99003-01	DUCT System Suitability Set	M9/900
STD 99004-01	Low Level Sucrose Set	M9/900

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Sievers Certified Reference Materials & Reagents

Part #	Description	Model
STD 99005-01	Sucrose Set, 2 ppm	M9/900
STD 99006-01	System Suitability + Rss	M9/900
STD 99007-01	InnovOx Pharma Calibration Set	M9/900
STD 99008-01	100 ppb Sucrose Set	M9/900
STD 99009-01	DUCT System Suitability + Rs	M9/900
STD 99010-01	1 ppm KHP Set	M9/900
STD 99011-01	USP <661> Acc/Prec Set, 5 ppm	M9/900
STD 99012-01	USP <661> Linearity Set	M9/900
STD 99013-01	DUCT Sucrose Set, Rw + 5 Rs	M9/900
STD 99014-01	Sucrose Set, Rw + 3 Rs	M9/900
STD 99015-01	100 ppb Urea Set	M9/900
STD 99016-01	7 ppm Sucrose Set	M9/900
STD 99017-01	1 ppm KHP Set x2	M9/900
STD 99018-01	5.5 ppm KHP Set	M9/900
STD 99020-01	500 ppb KHP Set	M9/900
STD 99021-01	2 ppm KHP Set	M9/900
STD 99023-01	10 ppm KHP Set	M9/900
STD 99024-01	System Suit + Rw	M9/900
STD 99028-01	Low Level KHP + 1 ppm IC Set	M9/900
STD 99030-01	2 x Conductivity Ver Set	M9/900
STD 99031-01	3-Point KHP Set, 0.25-2 ppm	M9/900
STD 99032-01	5-Point KHP Set, 0.25-2 ppm	M9/900
STD 99034-01	Extended Linearity Set, 3 Rw	M9/900
STD 99036-01	25 ppm Sucrose Set	M9/900
STD 99038-01	USP Sucrose Linearity Set, 3 Rw	M9/900
STD 99039-01	Sucrose Linearity Set, 750 ppb - 10 ppm, 3 Rw	M9/900
STD 99040-01	Multi-Point KHP Set	M9/900
STD 99041-01	USP Sucrose Set, 12 ppm	M9/900
STD 99050-01	USP Benzoquinone Linearity Set, 3 Rw	M9/900
STD 30002-01	IC Standard, 25 mg/L	M9/M5310 C/900
STD 77100-01	Reagent Water Blank - Rw	M9/M5310 C/900
STD 77106-01	Pack of (4) Reagent Water	M9/M5310 C/900
STD 90001-01	Single Pt. Calibration Set, 1 ppm	M9/M5310 C/900
STD 90002-01	Single Pt. Calibration Set, 5 ppm	M9/M5310 C/900
STD 90003-01	Single Pt. Calibration Set, 10 ppm	M9/M5310 C/900
STD 90004-01	Single Pt. Calibration Set, 25 ppm	M9/M5310 C/900
STD 90005-01	Single Pt. Calibration Set, 50 ppm	M9/M5310 C/900
STD 90008-01	Single Pt. Verification Set, 1 ppm	M9/M5310 C/900
STD 90009-01	Single Pt. Verification Set, 2 ppm	M9/M5310 C/900
STD 90010-01	Single Pt. Verification Set, 5 ppm	M9/M5310 C/900

Part #	Description	Model
STD 90011-01	Single Pt. Verification Set, 10 ppm	M9/M5310 C/900
STD 90012-01	Single Pt. Verification Set, 25 ppm	M9/M5310 C/900
STD 90013-01	Single Pt. Verification Set, 50 ppm	M9/M5310 C/900
STD 90080-01	Hydrogen Peroxide Rinse	M9/M5310 C/900
STD 91200-01	Single TOC Vial, 1 ppm KHP	M9/M5310 C/900
STD 91300-01	Single TOC Vial, 5 ppm KHP	M9/M5310 C/900
STD 90031	Municipal TOC Verification Set	M9/M5310 C/900
STD 96000-01	5310 C Multi-Point Calibration Set	5310 C
STD 90000-01	900 Multi-Point Calibration Set	900
STD 90014-01	900 Turbo Calibration Set, 4 ppm	900
STD 90015-01	900 Turbo Verification Set, 4ppm	900
STD 90034	900 Autoreagent Verification Set	900
STD 90036	900 Autoreagent Calibration Set	900
STD 70005-01	Boron Verification	Boron
STD 31003-04	CheckPoint System Suitability Set	CheckPoint
STD 97006-02	CheckPoint TOC Linearity Set	CheckPoint
STD 97010-02	CheckPoint TOC Calibration Set	CheckPoint
STD 77035-01	CheckPoint Conductivity Std	CheckPoint
STD 68015-01	InnovOx 0-100 ppm Cal & Ver Set	InnovOx
STD 68020-02	InnovOx 0-1000 ppm Cal & Ver Set	InnovOx
STD 68050-02	InnovOx TOC Service Kit	InnovOx
STD 68100-01	Innovox Reagent Water	InnovOx
STD 68202-01	InnovOx TOC Cal, 2 ppm	InnovOx
STD 68205-01	InnovOx TOC Cal, 5 ppm	InnovOx
STD 68210-01	InnovOx TOC Cal, 10 ppm	InnovOx
STD 68211-01	InnovOx TOC Ver, 10 ppm	InnovOx
STD 68225-01	InnovOx TOC Cal, 25 ppm	InnovOx
STD 68226-01	InnovOx TOC Ver, 25 ppm	InnovOx
STD 68250-01	InnovOx TOC Cal, 50 ppm	InnovOx
STD 68251-01	InnovOx TOC Ver, 50 ppm	InnovOx
STD 68310-01	InnovOx TOC Cal, 100 ppm	InnovOx
STD 68311-01	InnovOx TOC Ver, 100 ppm	InnovOx
STD 68320-01	InnovOx TOC Cal, 200 ppm	InnovOx
STD 68350-01	InnovOx TOC Cal, 500 ppm	InnovOx
STD 68351-01	InnovOx TOC Ver, 500 ppm	InnovOx
STD 68410-01	InnovOx TOC Cal, 1000 ppm	InnovOx
STD 68411-01	InnovOx TOC Ver, 1000 ppm	InnovOx
STD 68450-01	InnovOx TOC Cal, 5000 ppm	InnovOx
STD 68451-01	InnovOx TOC Ver, 5000 ppm	InnovOx
STD 68520-01	InnovOx TOC Cal, 20000 ppm	InnovOx

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Sievers Certified Reference Materials, Reagents, and Consumables

Part #	Description	Model
STD 68521-01	InnovOx TOC Ver, 20000 ppm	InnovOx
STD 68551-01	InnovOx TOC Cal/Ver, 50000 ppm	InnovOx
STD 68620-02	InnovOx 100 ppm IC Standard	InnovOx
STD 99007-01	InnovOx Pharma Calibration Set	InnovOx
STD 68901-01	Check Standard, 10 ppm KHP, 4 L Carboy	InnovOx
STD 68902-01	Check Standard, 50 ppm KHP, 4 L Carboy	InnovOx
STD 68903-01	Check Standard, 100 ppm KHP, 4 L Carboy	InnovOx
STD 68904-01	Check Standard, 250 ppm KHP, 4 L Carboy	InnovOx
STD 68905-01	Check Standard, 500 ppm KHP, 4 L Carboy	InnovOx
STD 68906-01	Check Standard, 1000 ppm KHP, 4 L Carboy	InnovOx
STD 68907-01	Check Standard, 5000 ppm KHP, 4 L Carboy	InnovOx

Endotoxin Microplates, Reagents, and Lab Materials

Part #	Description	Model
APK 85910-02	Eclipse Microplates - 5 plates/pack	Eclipse
APK 85900-02	Eclipse Microplate - 1 plate/pack	Eclipse
STD 85020-01	Eclipse Microfluidic Solution	Eclipse
STD 85000-01	1:1 Ratio Verification Kit	Eclipse
HMI 85905-01	Certified 1000 µL Pipette Tips	Eclipse
HMI 85904-02	Certified 200 µL Pipette Tips	Eclipse

Sample Vials, Containers, and Cleaning Validation Kits

Part #	Description	Model
HMI 77500-01	Dual Use Conductivity & TOC Vials, 30-case	M9/M500
HMI 77510-01	Certified Blue DUCT Vials, 30-case	M9/M500
HMI 77520-01	Certified Blue DUCT CV Kit, 30 vilas, 40 swabs	M9/M500
HMI 77530-01	Certified Blue DUCT Clean Package, 30-case	M9/M500
HMI 90090-01	Pre-Acidified Vials, 72-case	Multiple
HMI 90217-01	Pre-Cleaned, 17 mL Glass Vials with Caps	Multiple
HMI 90606	Certified TOC Vials, 40 mL, 72-case	Multiple
HMI 90610-01	Certified Blue TOC Vials, 72-case	Multiple
HMI 90620-01	Certified Blue Large CV Kit, 72 vials, 80 swabs	Multiple
HMI 90690-01	Certified Blue Pre-Acidified TOC Vials	Multiple
HMI 90707-01	40 mL Sample Vials, 72-case	Multiple
HMI 90810-02	Pre-Cleaned, 60 mL Glass Vials	Multiple
HMI 91210-01	Certified Blue TOC Vials, 12-case	Multiple
HMI 91220-01	Certified Blue Small CV Kit, 12 Vials, 20 swabs	Multiple
HMI 91230-01	Certfied Blue Clean Package, 12-case	Multiple
APK 90600-01	Cleaning Validaiton Kit, 72 vials, 80 swabs	Multiple
HMI 90600-01	Cleaning Validation Swab Kit, 20 swabs	Multiple
HMI 90602-01	Cleaning Validation Swab Kit, Double Bagged, 20 swabs	Multiple
HMI 90700-01	Cleaning Validation Swab Kit, Long Handle, 20 swabs	Multiple
HMI 90702-01	Cleaning Validation Swab Kit, Long Handle, Double Bagged, 20 swabs	Multiple
HMI 90800-01	Polypropylene Test Tubes, 35 mL	500 RL
HMI 90608-01	Certified TOC Vials, Amber, 40 mL, 72-case	Multiple
HMI 90708-01	40 mL Amber Sample Vials, 72-case	Multiple
HMI 90691-01	Filled Pre-Acidified Vial, 40 mL Solution, 4-pack, 0.072%	Multiple
HMI 90692-01	Filled Pre-Acidified Vial, 20 mL Solution, 0.072%	Multiple
HMI 90693-01	Filled Pre-Acidified Vial, 40 mL Solution, 4-pack, 0.085%	Multiple

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Consumables, Reagents, and Replacement Parts

Part #	Description	Model
APK 35010-01	UV Lamp Replacement	M9/900/500/CheckPoint
APK 77207-02	M-Series Sample Pump Heads	M-Series
ACT 77080-01	ICR Chemical Trap, M-Series	M-Series
APK 77250-01	M-Series/M500 Resin Bed Replacement	M-Series/M500
M9 MAINT	12-month M-Series Consumables Kit	M-Series
APF 90150-02	Oxidizer Cartridge, 150 mL	M-Series/900
APF 90300-02	Oxidizer Cartridge, 300 mL	M-Series/900
APF 90310-02	Acid Cartridge	M-Series/900
APF 90311-01	Acid Cartridge, Semi Only	M-Series/900
APK 96510-03	AS Needle Assembly Kit	M-Series/900
ARK 34110	Pump Diaphragm Maintenance Kit	M-Series/900
HTF 34000	Disc Filter	M-Series/900
HTF 94401	In-Line SS Filter 60 micron	M-Series/900
APK 43030-02	Degasser, Closed Chamber	M9/900 ICR
APK 43040-02	Degasser, Open Chamber	M9/900 ICR
HFL 00081	Capsule FIlter, High Capacity, 40 micron	M5310 C/5310 C
HFL 61000-01	Cartridge Filter, 50 micron	M5310 C/5310 C
HFL 61010-01	Bag Filter, PPE, 50 micron	M5310 C/5310 C
APK 78611-01	M500/M500e UV Lamp Replacement	M500
APK 78626-01	M500/M500e Sample Pump Heads	M500
APK 78011-01	M500/M500e Fan Filter Replacement	M500
APK 78130-01	M500 Ozone Destruct Standard iOS Kit	M500
APK 78330-01	M500 Ozone Destruct Super iOS Kit	M500
HTF 94402	Replacement Filter, 60 micron	M500/500 RL/900
APK 74017-02	500 RL Sample Pump Kit	500 RL
APK 74160	500 RL DI Reservoir/Resin Replacement	500 RL
900 MAINT	12-month 900 Series Consumables Kit	900
ACT 00070-02	ICR Chemical Trap, 900	900
APK 96004-01	Resin Bed, 900	900
ATU 96200	Sample Pump Tubing, 900	900
HMI 89070	Epson Thermal Printer Paper	Multiple
APK 85300-01	Temperature Verification Plate (TVP)	Eclipse
APK 85400-01	Optical Verification Plate (OVP)	Eclipse
APK 97000-01	Pump Head Assembly Kit	CheckPoint
APK 97010-01	Consumables Kit	CheckPoint
APK 97310-01	Filter Element Kit	CheckPoint
APK 68050-01	Reagent, $Na_2S_2O_8$, 6-pack (Lab Analyzer Only)	InnovOx
APK 68051-01	Reagent, $Na_2S_2O_8$, Single-pack (Lab Analyzer Only)	InnovOx
APK 68052-01	Reagent, $Na_2S_2O_8$, 8-pack (On-Line Analyzer Only)	InnovOx
SCH 68100-01	3M Hydrochloric Acid - 500 mL	InnovOx
APK 68110-01	InnovOx Reactor Seal Kit	InnovOx
APK 68100-02	InnovOx Pinch Tubing Kit (Lab)	InnovOx
APK 68865-02	InnovOx Pinch Tubing Kit (OL)	InnovOx
HFL 68100-01	InnovOx NDIR Filter, White	InnovOx
APK 68140-02	InnovOx Gas Tubing Kit (Lab and On-Line)	InnovOx
APK 68130-02	InnovOx Waste Tubing Kit (Lab and On-Line)	InnovOx
APK 68131-01	InnovOx Chemical Resistant Waste Tubing Kit (Lab and On-Line)	InnovOx
APK 68615-01	InnovOx Boxer Sample Pump Tubing	InnovOx
APK 68205-01	InnovOx Sample/Reactor Pump Head	InnovOx
APK 68555-01	InnovOx Air Filter Cartridges	InnovOx
ASM 68500-01	InnovOx Autosampler Needle Kit	InnovOx
APK 68996-01	InnovOx Filter Panel 100-Mesh Replacement Screen	InnovOx
APK 68997-01	InnovOx Filter Panel 20-Mesh Replacement Screen	InnovOx
ARK 34110	InnovOx Pump Diaphragm Kit	InnovOx
HTF 34000	InnovOx Disk Filter	InnovOx
APK 68306-01	Syringe Lube Kit	InnovOx
SMI 68010-01	Krytox Grease	InnovOx
APK 68501-01	InnovOx Lab Service Kit - Normal Application (Boxer Pump)	InnovOx
APK 68502-01	InnovOx Lab Service Kit - Harsh Application (Boxer Pump)	InnovOx
APK 68601-01	InnovOx Online Service Kit - Harsh Application (Boxer Pump)	InnovOx
APK 68504-02	InnovOx Air Filter Option (Year Supply)	InnovOx
RGT 68003-01[2]	Hydrochloric Acid, 3N (Bulk Reagent)	InnovOx
RGT 68006-01[2]	Phosphoric Acid, 6M (Bulk Reagent)	InnovOx
RGT 68025-01[2]	Sodium Persulfate, 30% W/V (Bulk Reagent)	InnovOx
ASM 71220-01	Boron Reagent Refill	Boron
ASM 71235-01	Boron Pump Tubing	Boron
ASM 71255-01	Boron Set of Columns	Boron
ASM 71260-01	Boron Zero Column	Boron
ASM 71265-01	Boron Reagent Column	Boron
HMI 71125-01	80 mm Filter Media, 5-pack	Boron
HMI 71140-01	Boron Inline 15 micron Filter	Boron
HMI 71141-01	Boron 15 micron SS Inline Filter Media	Boron

[2] Bulk Reagents are only available in NAM

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How to Order

What to Expect from Sievers Standards and Consumables

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