

A grid of glass sieves is shown on a laboratory bench. The sieves are arranged in a regular pattern, and the background is a blurred blue. A semi-transparent grid pattern is overlaid on the top right of the image.

Sievers* certified reference materials and consumables catalog

ready for the resource revolution



Sievers certified reference materials and consumables

For more than 20 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 the renowned Six Sigma methodology to ensure the finest quality in standards and consumables. Now, as part of SUEZ, Sievers standards and consumables provide unmatched performance and reliability in the marketplace.

SUEZ's ready-to-use standards are designed for calibration, validation, system suitability, and compendial test applications, and can be used with most other TOC analyzer brands. We also offer certified (<10 ppb) TOC vials, TOC sample vials for process monitoring, consumables, and replacement parts for Sievers TOC Analyzers.



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Sievers standards benefits

Certified and Traceable

With extensive expertise in supporting the pharmaceutical market, SUEZ 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 standard that documents source material traceability, the accuracy of the solution, 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. Source materials for system suitability standards are traceable to the United States Pharmacopoeial Convention (USP). Materials for Japanese Pharmacopoeia testing comply with the required specifications for purity. 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 NIST.

Stringent Quality Control

SUEZ 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. SUEZ:

- Prepares Sievers standards in accordance with USP Chapter <643>, USP Chapter <645>, EP Method <2.2.44>, and JP Method <2.59>.
- ISO/IEC 17025 and ISO 17034 accreditations** ensure reference materials are consistently produced, controlled, and audited to robust quality standards.

**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.




Certificate of Analysis Sievers Certified Reference Material

Product Description:	System Suitability + 1 ppm KHP Set			
Standard Set Part Number:	STD 90052-01			
Lot Number:	18004-0065			
Intended Use:	Total Organic Carbon Analyzer Testing			
Storage Requirements:	Store at 5 ± 4°C			
Certification Date:	31 Aug 2018			
Expiration Date:	01 Mar 2018			

Description	Vial Part Number	Certified Value	Uncertainty (ppb)	Measured Value (ppb)
Reagent Water	STD 74000	<50 ppb <0.15 µS/cm @ 25 °C	±4.6	19.9


Description	Vial Part Number	Certified Value	Expanded Uncertainty	Raw Material Lot
500 ppb Standard Solution Rs	STD 74054	500 ppb as USP Sucrose	±3.2 %	R04311
500 ppb System Suitability Solution Rss	STD 74058	500 ppb as USP 1,4-Benzoquinone	±2.8 %	I0L535
1 ppm TOC Standard	STD 74100	1.00 ppm as Potassium Hydrogen Phthalate (KHP)	±2.9 %	C582000

QC Analyst




Francis Lovato


Quality Engineer




Brianne Broughton



ILAC-MRA
ACCREDITED



ANAB
ACCREDITED
TESTING LABORATORY
AT-2131



ANAB
ACCREDITED
REFERENCE MATERIAL
AR-2132

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DCA 85000-03 Rev A
Page 1 of 2
COA Temp, Cert Reference

- Produces Sievers reference materials in an ISO 7 clean room to minimize contamination. This standards manufacturing process is unique to the market.
- 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.

Value and Convenience

The SUEZ standards production lab (see page 8) not only allows for the maintenance of the most rigorous TOC standards manufacturing process in the industry but also enables us to produce standards on a large scale. As a result, our customers benefit from significant cost savings. Moreover, 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 SUEZ's guaranteed performance, Sievers standards and consumables are the logical choice for your business.

Flexible Ordering and Delivery

For your convenience, SUEZ 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 31 for details on ordering.)

Why risk the performance of your critical instrumentation and the quality of measurement when you can rely on Sievers standards?

Guaranteed Consumables and Replacement Parts

SUEZ provides consumables, reagents, and replacement parts that are certified and designed specifically for our instrumentation.

As the Original Equipment Manufacturer we provide warranty options and guarantees on consumables, reagents, and parts quality.

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 20 for additional information.)

Sievers standards products and applications

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

Only SUEZ offers a complete TOC validation standard set in alignment with 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, 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. SUEZ 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 SUEZ recommendations.

SUEZ offers a full line of TOC and conductivity calibration standards for a variety of instruments and applications. For online instruments designed exclusively 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 carbon standards.

Verification Standards Sets

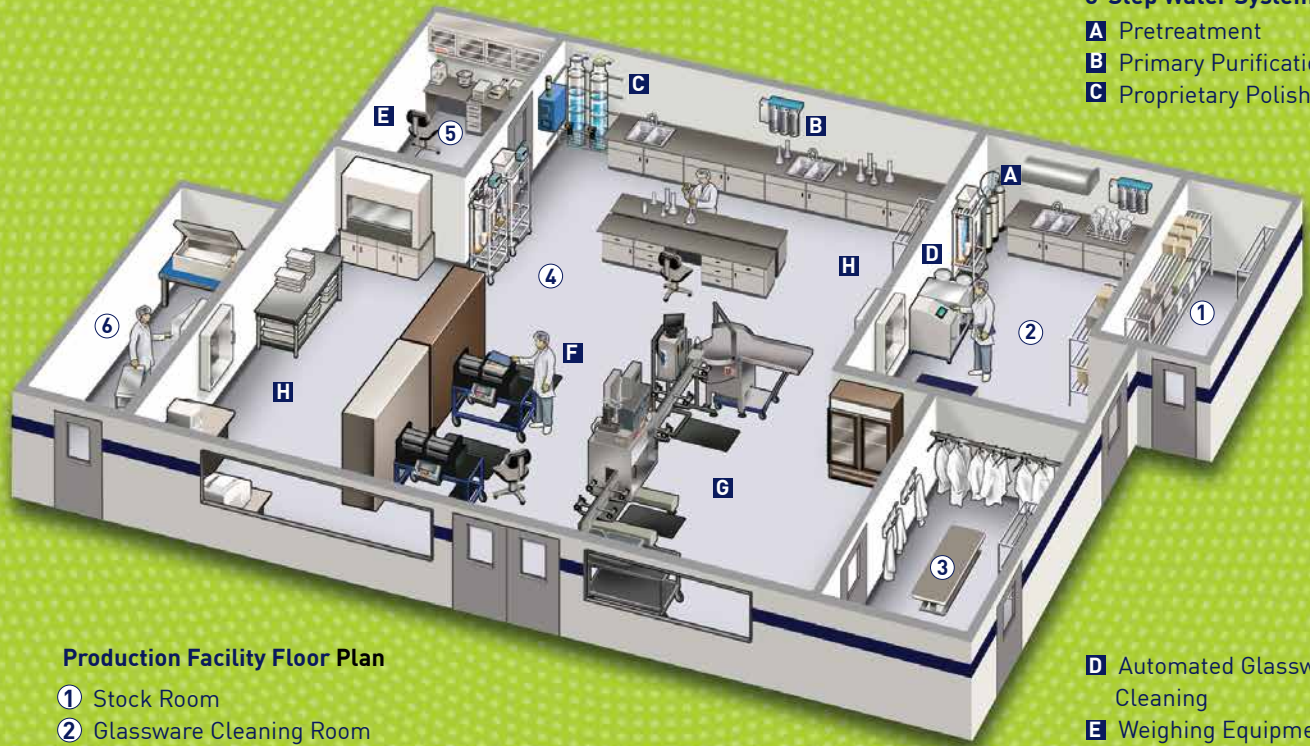
Verification standard sets are typically run if a change is made to the instrument or after maintenance. Calibration curve verification should be conducted on a regular basis with one or more standards within the linear range. SUEZ offers a host of verification standards at concentrations across the 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 LOD, 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.



Lab Equipment
3-Step Water System
A Pretreatment
B Primary Purification
C Proprietary Polishing

Production Facility Floor Plan

- ① Stock Room
- ② Glassware Cleaning Room
- ③ Pressurized Airlock
- ④ Main Clean Room Area
- ⑤ Weighing Room
- ⑥ Product Transfer Room

- D** Automated Glassware Cleaning
- E** Weighing Equipment
- F** Automatic Vial Fillers
- G** Vial Filling Station
- H** Airlock Pass-through Windows

SUEZ Standards Production Lab

Committed to the highest quality, SUEZ manufactures Sievers standards in a stringent cleanroom environment designed to ISO 7 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 M9 Portable

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 On-Line and the Portable versions of the M9 for the pharmaceutical industry, M9^e 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 page 27–30 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 Autosampler
and M9 Laboratory

Sievers M9 On-Line

Sievers M5310 C On-Line,
Portable, and Laboratory TOC
Analyzers

Sievers M-Series

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

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



M9 Portable

System Suitability and Compendial Standards

The United States Pharmacopeia (USP) Chapter <643>, European Pharmacopoeia (EP) Method <2.2.44>, Chinese Pharmacopoeia Appendix VIII R, 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, SUEZ offers certified reference materials to meet these test needs.

The following are the most frequently used standards. For a full list, see pages 27—30.

System Suitability—(40-mL vials)

part #	description	applicability
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 90039-01	SDBS Suitability Set Standard set to meet Japanese and Korean Pharmacopoeia 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)

TOC Calibration Sets

Multi-Point Calibration Set—(40-mL vials)

part #	description	applicability
STD 77000-01	M-Series Multi-Point Calibration Standards Set—40-mL vials 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 Standards (10 mg C/L IC as Na ₂ CO ₃).	All
STD 77014-01	M9, M9^e Turbo Multi-Point Calibration 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 ₂ CO ₃ ; both included).	M9, M9 ^e

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

part #	description	applicability
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 ₂ CO 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 ₂ CO 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 ₂ CO 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, M9 ^e



† Unless otherwise stated.

Sievers M-Series (continued)

TOC Verification Sets

Verification Standards—(40-mL vials †)

part #	description	applicability
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 ₂ CO 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 ₂ CO 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 ₂ CO 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 ₂ CO 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 ₂ CO 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, M9^o 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 ₂ CO ₃).	M9, M9^o
STD 77200-01	M-Series Autoreagent Verification Set Set includes: (1) 10 mg C/L TOC Standard (as Sucrose) and (1) 25 mg C/L TOC Standard (as KHP).	All
STD 77030-01	M9 Conductivity Verification Standard Set includes: (1) 25 µS/cm (as HCl) in 30 mL specialty Dual Use Conductivity and TOC vial.	M9, M9^o

† Unless otherwise stated.

Sievers M-Series (continued)

TOC Validation Sets

Validation Standards—(40-mL vials)

part #	description	applicability
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, M9^e
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, M9^e
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

Certified TOC sample vials are also available for Sievers and other instruments. See page 28 for more information.

Sievers 500 RL Series

Super Convenient Integrated Super iOS

With a Super iOS you plug in the combined standards pack, start your protocol, and walk away. Running the standards procedure has been completely automated.

Blanket Order Option

In addition to a full range of individual standard sets, we offer annual blanket orders at a discount that you can customize to meet your specific needs and have shipped at your desired intervals.



Sievers 500 RL and
500 RL[®] On-Line
TOC Analyzers

The Sievers 500 RL On-Line Total Organic Carbon (TOC) Analyzer is a reagentless analyzer designed to continuously monitor organics in ultrapure water for pharmaceutical, microelectronics, semiconductor, and power applications.

The 500 RL 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 27—30.**

Standards for the 500 RL with Super iOS

System Suitability and Compendial Standards—(40-mL vials †)

part #	description
STD 74503	500 RL System Suitability Set—Super iOS Set Includes (1) Reagent Water Blank - Rw, (1) Standard Solution - Rs (500 µg C/L as USP Sucrose), (1) Standard Solution - Rss (500 µg C/L as USP 1,4-Benzoquinone), and (1) Rinse Water Standard. Super iOS standards are packaged in 40 mL glass vials, inserted in a vial cartridge for use with the Sievers Super iOS System.
STD 74529-01	500 RL with Super iOS SDBS Suitability Set (TOC) Standard set for the Sievers 500 RL TOC Analyzer with Super iOS that meets Japanese and Korean Pharmacopoeia TOC requirements. Set includes: (1) Reagent Water Blank and (1) 500 µg C/L as SDBS standard in 30 mL specialty Dual Use Conductivity and TOC vials. These standards are packaged in a vial set cartridge for use with the Sievers Super iOS System.

† Unless otherwise stated.

Sievers 500 RL Series (continued)

TOC and Conductivity Calibration Sets

Multi-Point Calibration Set—(40-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: (1) Reagent Water Blank, (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). These standards are packaged in a vial set cartridge for use with the Sievers Super iOS System.

Single Point Calibration Set—(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: (1) Reagent Water Blank, (1) 1.5 mg C/L TOC Standard (as KHP) and (1) 25 µS/cm Conductivity Standard (as HCl). These standards are packaged in a vial set cartridge for use with the Sievers Super iOS System.
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.

Accuracy/Precision and Verification Set—(40-mL Vials)

part #	description
STD 74502	500 RL with Super iOS Accuracy/Precision and Verification Set Accuracy/Precision and 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). These standards are packaged in a vial set cartridge for use with the Sievers Super iOS System.
STD 74507	500 RL with Super iOS Accuracy/Precision and Verification Set (TOC Only) Accuracy/Precision and 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) packaged in a vial set cartridge for use with the Sievers Super iOS System. Not compatible with 500 RL instruments equipped with the conductivity option.

Validation Sets—(40-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 and Verification Sets, (1) System Suitability Set, (1) Linearity Set, (1) Robustness Set, and (1) Specificity Set. These standards are packaged in a vial set cartridge for use with the Sievers Super iOS System.

Sievers 500 RL Series (continued)

Validation Sets (continued)

part #	description
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 and Verification Sets, (1) System Suitability Set, (1) Linearity Set, (1) Robustness Set, and (1) Specificity Set. These standards are packaged in a vial set cartridge for use with the Sievers Super iOS System.
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. These standards are packaged in a vial set cartridge for use with the Sievers Super iOS System.
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. These standards are packaged in a vial set cartridge for use with the Sievers Super iOS System.
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. These standards are packaged in a vial set cartridge for use with the Sievers Super iOS System.

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 and 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® OnLine/Portable TOC Sensors



CheckPoint
Portable/On-Line TOC Sensor

The affordable CheckPoint Pharma and CheckPoint® 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. CheckPoint/CheckPoint® is the first and only battery-powered TOC measuring device.

The following are the most frequently used standards for the CheckPoint. For the full list of standards, please see page 27—30.

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 Set includes: Conductivity Standard for the Sievers 500 and Check-Point 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 On-Line TOC Analyzers



The Sievers InnovOx Laboratory and On-Line Total Organic Carbon (TOC) Analyzers represent a true breakthrough in high TOC measurement technology and reliability. The InnovOx can consecutively handle thousands of common—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 27—30.

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.

Sievers 860 Laboratory TOC Analyzers***



Sievers 860
Laboratory TOC Analyzer

The Sievers 860 Laboratory TOC Analyzer was developed for general pharmaceutical monitoring of Purified Water (PW) and Water for Injection (WFI). Based on the Sievers 900 Laboratory TOC Analyzer, the 860 Analyzer combines high-quality performance with affordability. It simplifies your day-to-day water testing routines, while giving you confidence in your monitoring results for regulatory compliance. The Sievers RT12 Autosampler was designed for use with the Sievers 860.

Following are the most frequently used standards for the Sievers 860. For the full list of standards, see pages 27—30.

System Suitability and Compendial Standards (40-mL vials)

part #	description
STD 74403	System Suitability Set Set Includes (1) Reagent Water Blank - Rw, (1) Standard Solution - Rs (500 µg C/L as USP Sucrose), (1) Standard Solution - Rss (500 µg C/L as USP 1,4-Benzoquinone), and (1) Rinse Water Standard.

TOC Calibration Set - Single Point Calibration Set (40-mL vials)

part #	description
STD 74405	Single Point Cal Set A (TOC Only) Single Point calibration set A. Includes (2) Reagent Water Blanks and (1) 1.5 mg C/L TOC Calibration Standard (as KHP).

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

part #	description
STD 74407	Accuracy/Precision and Verification Set (TOC Only) Accuracy/Precision and Verification set includes (1) Reagent Water Blank and (1) 500 µg C/L TOC Verification Standard (as Sucrose).

Validation Sets (40-mL vials)

To complete the validation protocol for the Model 860 after calibration three standards sets are required.

part #	description
STD 74407	Accuracy/Precision and Verification Set (TOC Only) Accuracy/Precision and Verification set includes (1) Reagent Water Blank and (1) 500 µg C/L TOC Verification Standard (as Sucrose).
STD 74403	System Suitability Set Set Includes (1) Reagent Water Blank - Rw, (1) Standard Solution - Rs (500 µg C/L as USP Sucrose), (1) Standard Solution - Rss (500 µg C/L as USP 1,4-Benzoquinone), and (1) Rinse Water Standard.
STD 74406	Linearity Set Linearity set includes (1) Reagent Water Blank and (1) each 250 µg C/L, 500 µg C/L, and 750 µg C/L as KHP.

*** Sievers 860 Model is available in China, India, and Brazil locations only.

Standards for non-Sievers brand TOC instruments

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

- Shimadzu
- OI Analytical
- Skalar
- Teledyne-Tekmar

For more information, please contact us at www.sieversinstruments.com, or see page 31 for other options.

Custom reference materials for all TOC instruments

By utilizing Sievers certified reference standards, SUEZ relieves the burden and risks associated with manufacturing standards, including maintaining required equipment, training, and material supply chain. SUEZ 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

Please send your request to sievers.customer care.wts@suez.com, or see page 31 for other contact options.

TOC Sample Vials, Containers, and Cleaning Validation Kits

Increasing costs, time, and regulatory pressures have made it essential for companies to obtain accurate Total Organic Carbon (TOC) 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, SUEZ 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.

The following are the most frequently used vials.

For the full list of consumables, reagents and replacement parts, please see page 27-30.

sample vials, containers, and cleaning validation kits

Sievers Certified (<10 ppb TOC) Vials

Sievers Certified (<10 ppb¹) 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

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

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

part #	description
HMI 77510-01	Sievers Certified Blue Dual Use Conductivity & TOC Vials, 30-mL, 30-case Pre-cleaned and certified (<10 ppb TOC), no ionic leaching 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), no ionic leaching 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 90690-01	Sievers Certified Blue Pre-acidified TOC Vials, 40-mL, 72-case Certified Blue TOC Vials, 40-mL (HMI 90610-01) pretreated with phosphoric acid (20 µL of 85 wt% H ₃ PO 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 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.



part #	description
HMI 77500-01	Certified Dual Use Conductivity & TOC Vials, 30-mL, 30-case Pre-cleaned and certified (<10 ppb TOC), no ionic leaching 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 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 ₃ P ₀ ₄) and certified to <35 ppb TOC, 72 per case.
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.
HMI 90691-01	Filled Pre-acidified TOC Vials, 4-pack Certified TOC vials, 40-mL (HMI 90606) filled with 0.072% phosphoric acid, package of 4. Certified to <85 ppb TOC.

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.

Additional Sample Containers

part #	description
HMI 90810-02	Pre-cleaned 60-mL Glass Vials with caps and septa, 72 per case. These Volatile Organic Analysis (VOA) vials are certified to meet EPA requirements. Vial dimensions: 26.5 mm x 144.5 mm. Teflon-lined septa thickness: 0.125" (3.2 mm).
HMI 90800-01	35-mL Polypropylene Test Tubes for general sampling, 250 per case. These uncleaned, disposable containers have a round bottom with an open top. The test tubes are autoclavable. Tube dimensions: 20 mm x 150 mm.

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 TOC 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 contains (72) Sievers Certified TOC Vials (<10 ppb TOC) and (80) Certified Sampling Swabs (<50 ppb TOC).
HMI 90600-01	Cleaning Validation Swab Kit contains (20) Certified Sampling Swabs (<50 ppb TOC).
HMI 90620-01	Sievers Certified Blue Cleaning Validation Kit, Large contains (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 contains (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 contains (30) Certified DUCT Vials (<10 ppb TOC and no ionic leaching) and (40) Certified Sampling Swabs (<50 ppb TOC). Paper free packaging, vials produced in an ISO 7 Cleanroom.

consumables, reagents, and replacement parts

SUEZ manufactures consumable parts and reagents (acid and oxidizer) for use with TOC instrumentation. Our parts and reagents are designed and built to exact specifications for the Sievers product line of analyzers and sensors.

To manufacture the purest reagent for TOC measurement and prevent any contribution of TOC, we use ultrapure water from our proprietary water system. We also 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, please see page 27—30.

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

M-Series

part #	description
M9 MAINT	M-Series Consumable Kit 12-month Consumables Kit for the Sievers M-Series. Includes (4) Persulfate Reagents (150mL EA), (2) Acid Reagents, (2) UV Lamps, (2) Sample Pump Heads, and (1) Ion Exchange Resin Bed.
APF 90310-02	Acid Cartridge 300-mL Acid Reagent Cartridge for the Sievers M-Series, 900, and 5310 C 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, 900, and 5310 C 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, 900, and 5310 C 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.
ASM 77250-01	M-Series Resin Bed Replacement Replacement Resin Cartridge for the Sievers M-Series Analyzers.
APK 77207-01	M-Series Sample Pump Heads Two (2) Replacement Pump Heads for the Sievers M-Series Analyzers.
APK 43030-02	Degasser, Closed Chamber Degassing Module for Inorganic Carbon Remover (ICR) used with M9, M9 ⁺ , 900 Series, and 5310 C Laboratory & Portable units.
APK 43040-02	Degasser, Open Chamber Degassing Module for the Inorganic Carbon Remover (ICR) used with the M5310 C Series and 5310 C On-Line units.

500 RL and 860 Series

part #	description
ARK 35010-01	UV Lamp, Replacement UV Lamp for the Sievers PPT, 500 Series, 860, and CheckPoint. Average lamp life is 6 months of operation.
APK 74160	500 RL/860 DI Reservoir/Resin Replacement DI Reservoir/Resin Replacement part. This part is a consumable that needs to be replaced every two years. The part is the DI Reservoir with the Resin.
APK 74017-01	500 RL/860 Sample Pump Kit Two (2) Replacement Sample Pump Heads for 500 RL and 860 Analyzers.

consumables, reagents, and replacement parts (continued)

The following are the most frequently used consumables, reagents, and replacement parts. For the full list, please see page 27—30. When ordering kits, please use the applicable part number and quantity.

InnovOx Series

part #	description
APK 68050-01	Reagent, Na₂S₂O₈, 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, Na₂S₂O₈, 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, Na₂S₂O₈, 8-pack (On-Line Analyzer Only) Kit contains eight (500g) pouches of dry sodium persulfate reagent. Kit 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	InnovOx Pinch Tubing Kit (Lab) Replacement Pinch Tubing for Lab Analyzers.
APK 68865-02	InnovOx Pinch Tubing Kit (OL) Replacement Pinch Tubing for On-Line Analyzers.
HFL 68100-02	InnovOx NDIR Filter, White Replacement NDIR Filter.
APK 68140-02	InnovOx Gas Tubing Kit (Lab and On-Line) Replacement Gas Tubing.
APK 68130-02	InnovOx Waste Tubing Kit (Lab and On-Line) 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

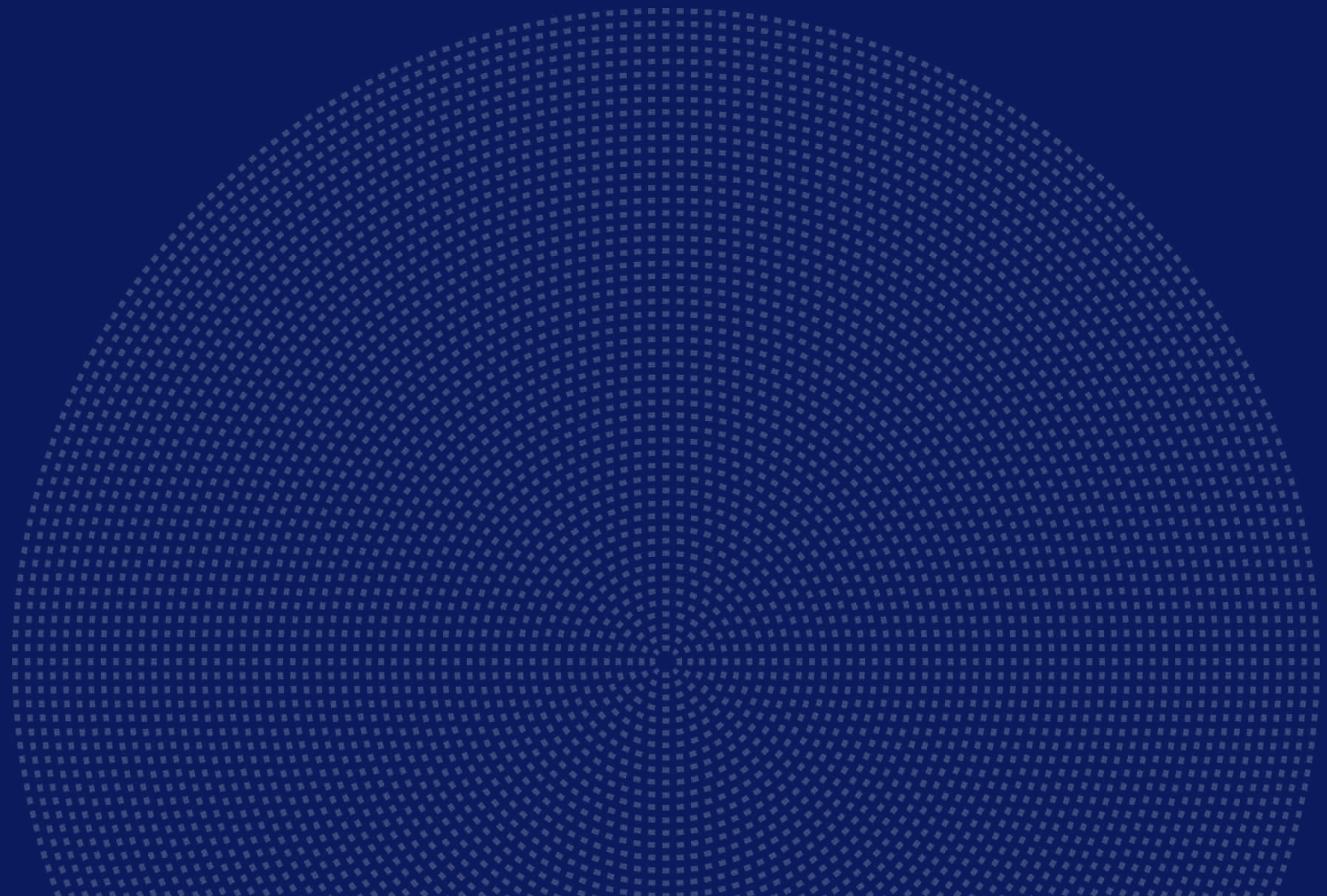
part #	description
ARK 35001-01	UV Lamp, Replacement UV Lamp for the CheckPoint. Average lamp life is 6 months of operation.
APK 97010-01	Checkpoint Consumables Kit (2) UV Lamps and (2) Pump heads.

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Sievers Certified Reference Materials

TOC Sample Vials, Containers, Cleaning Validation Kits

Consumables, Reagents, and Replacement Parts



Sievers Certified Reference Materials & Reagents

part #	description	model	part #	description	model
STD 97701-01	500 RL Reagent Water	500 RL	STD 90044-01	System Suit + Rs	M9/900
STD 33001-02	HCl Rinse Solution	500 RL	STD 90046-01	TOC KHP Set, 1 mg/L	M9/900
STD 74401	500 RL Single Point Calibration Set A	500 RL	STD 90047-01	Low Level Linearity Set	M9/900
STD 74402	500 RL Acc/Prec/Ver Set	500 RL	STD 90048-01	Extended Linearity Set	M9/900
STD 74403	500 RL System Suitability Set	500 RL	STD 90049-01	Sucrose Set, Rw + 2 Rs	M9/900
STD 74404	500 RL Multi-Point Cal. Set B	500 RL	STD 90050-02	Sucrose Set, 4 Rs	M9/900
STD 74405	500 RL Single Point Cal. Set A (TOC only)	500 RL	STD 90051-01	Rw, 1 mg/L + 10 mg/L KHP	M9/900
STD 74406	500 RL Linearity Set	500 RL	STD 90052-01	System Suit + 1 mg/L KHP	M9/900
STD 74407	500 RL Acc/Prec/Ver Set (TOC only)	500 RL	STD 90054-01	System Suit Cleaning Validation	M9/900
STD 74408-01	500 RL Robustness Set	500 RL	STD 90055-01	500 µg/L KHP Ver +H ₂ O ₂ Rinse	M9/900
STD 74429-01	500 RL SDBS Suitability Set	500 RL	STD 91901-01	KHP Set of 2, 500 µg/L	M9/900
STD 74501	500 RL Super iOS Single Point Cal. Set A	500 RL	STD 91903-01	KHP Set of 2, 5 mg/L	M9/900
STD 74502	500 RL Super iOS Acc/Prec/Ver Set	500 RL	STD 91904-01	KHP Set of 2, 10 mg/L	M9/900
STD 74503	500 RL Super iOS System Suitability	500 RL	STD 91905-01	KHP Set of 2, 25 mg/L	M9/900
STD 74504	500 RL Super iOS Multi-Pt. Cal. Set B	500 RL	STD 99001-01	M9/900 KHP Set, 5 ppm	M9/900
STD 74505	500 RL Super iOS Single Pt. Cal. A (TOC Only)	500 RL	STD 99003-01	DUCT System Suitability Set	M9/900
STD 74506	500 RL Super iOS Linearity Set	500 RL	STD 99004-01	Low Level Sucrose Set	M9/900
STD 74507	500 RL Super iOS Acc/Prec/Ver (TOC Only)	500 RL	STD 99005-01	Sucrose Set, 2 ppm	M9/900
STD 74508-01	500 RL Super iOS Robustness Set	500 RL	STD 99006-01	System Suitability + Rss	M9/900
STD 74509-01	500 RL Super iOS Specificity Set	500 RL	STD 99007-01	InnovOx Pharma Calibration Set	M9/900
STD 74527-01	500 RL Super iOS Rinse Vial Set	500 RL	STD 99008-01	100 ppb Sucrose Set	M9/900
STD 74529-01	500 RL Super iOS SDBS Suitability	500 RL	STD 99009-01	DUCT System Suitability + Rs	M9/900
STD 90080-01	Hydrogen Peroxide Rinse	500 RL	STD 99010-01	1 ppm KHP Set	M9/900
STD 77035-01	Conductivity Std	500 RL	STD 99011-01	USP <661> Acc/Prec Set, 5 ppm	M9/900
STD 74409-01	Specificity Set	500 RL	STD 99012-01	USP <661> Linearity Set	M9/900
STD 77000-01	M-Series Multi-Point Calibration Set	M9/M5310 C	STD 99013-01	DUCT Sucrose Set, Rw + 5 Rs	M9/900
STD 77200-01	M-Series Autoreagent Verification Set	M9/M5310 C	STD 99014-01	Sucrose Set, Rw + 3 Rs	M9/900
STD 77001-01	M9 Validation Set with Cal/Ver	M9	STD 99015-01	100 ppb Urea Set	M9/900
STD 77014-01	M9/M9e Turbo Multi-Pt. Calibration Set	M9	STD 99016-01	7 ppm Sucrose Set	M9/900
STD 77015-01	M9/M9e Turbo Verification Set	M9	STD 99017-01	1 ppm KHP Set x2	M9/900
STD 77026-01	M9 Conductivity Calibration	M9	STD 99018-01	5.5 ppm KHP Set	M9/900
STD 77030-01	M9 Conductivity Verification	M9	STD 99020-01	500 ppb KHP Set	M9/900
STD 77011-01	10 µS/cm KCl Conductivity Check Std	M9	STD 99021-01	2 ppm KHP Set	M9/900
STD 30004-01	Standard Solution--Rs	M9/900	STD 99023-01	10 ppm KHP Set	M9/900
STD 30008-01	System Suitability Solution--Rss	M9/900	STD 99024-01	System Suit + Rw	M9/900
STD 31004-01	System Suitability Set	M9/900	STD 99028-01	Low Level KHP + 1 ppm IC Set	M9/900
STD 31007-01	System Suitability, Set of 2	M9/900	STD 99030-01	2 x Conductivity Ver Set	M9/900
STD 31012-01	Linearity Standard Set	M9/900	STD 99031-01	3-Point KHP Set, 0.25-2 ppm	M9/900
STD 31013-01	Acc/Prec/Ver Set, 500 µg/L	M9/900	STD 99032-01	5-Point KHP Set, 0.25-2 ppm	M9/900
STD 31015-01	1.25 mg/L Sucrose Set	M9/900	STD 30002-01	IC Standard, 25 mg/L	M9/M5310 C/900
STD 33001-02	HCl Rinse Solution	M9/900	STD 77100-01	Reagent Water Blank-Rw	M9/M5310 C/900
STD 74409-01	Specificity Set	M9/900	STD 77106-01	Pack of (4) Reagent Water	M9/M5310 C/900
STD 77004-01	Sterile Water Suitability	M9/900	STD 90001-01	Single Pt. Calibration Set, 1 mg/L	M9/M5310 C/900
STD 77013-01	Acc/Prec/Ver Set, 8 mg/L	M9/900	STD 90002-01	Single Pt. Calibration Set, 5 mg/L	M9/M5310 C/900
STD 90007-01	Single Point Verification Set, 500 µg/L	M9/900	STD 90003-01	Single Pt. Calibration Set, 10 mg/L	M9/M5310 C/900
STD 90037-01	Robustness Set	M9/900	STD 90004-01	Single Pt. Calibration Set, 25 mg/L	M9/M5310 C/900
STD 90039-01	SDBS Suitability Set	M9/900			

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Consumables, Reagents, and Replacement Parts

part #	description	model	part #	description	model
ARK 35010-01	UV Lamp Replacement	M-Series/900 500/CheckPoint	APK 68865-02	InnovOx Pinch Tubing Kit (OL)	InnovOx
APK 77207-01	M-Series Sample Pump Heads	M-Series	HFL 68100-02	InnovOx NDIR Filter, White	InnovOx
ACT 77080-01	ICR Chemical Trap, M-Series	M-Series	APK 68140-02	InnovOx Gas Tubing Kit (Lab and On-Line)	InnovOx
APK 77250-01	Resin Bed, M-Series	M-Series	APK 68130-02	InnovOx Waste Tubing Kit (Lab and On-Line)	InnovOx
M9 MAINT	12-month M-Series Consumables Kit	M-Series	APK 68131-01	InnovOx Chemical Resistant Waste Tubing Kit (Lab and On-Line)	InnovOx
APF 90150-02	Oxidizer Cartridge, 150 mL	M-Series/900	APK 68615-01	InnovOx Boxer Sample Pump Tubing	InnovOx
APF 90300-02	Oxidizer Cartridge, 300 mL	M-Series/900	APK 68205-01	InnovOx Sample/Reactor Pump Head	InnovOx
APF 90310-02	Acid Cartridge	M-Series/900	APK 68555-01	InnovOx Air Filter Cartridges	InnovOx
APF 90311-01	Acid Cartridge, Semi Only	M-Series/900	ASM 68500-01	InnovOx Autosampler Needle Kit	InnovOx
APK 96510-03	AS Needle Assembly Kit	M-Series/900	APK 68996-01	InnovOx Filter Panel 100-Mesh Replacement Screen	InnovOx
ARK 34110	Pump Diaphragm Maintenance Kit	M-Series/900	APK 68997-01	InnovOx Filter Panel 20-Mesh Replacement Screen	InnovOx
HTF 34000	Disc Filter	M-Series/900	ARK 34110	InnovOx Pump Diaphragm Kit	InnovOx
HTF 94401	In-Line SS Filter 60 micron	M-Series/900	HTF 34000	InnovOx Disk Filter	InnovOx
HTF 94402	Replacement Filter 60 micron	M-Series/900	APK 68306-01	Syringe Lube Kit	InnovOx
APK 43030-02	Degasser, Closed Chamber	M9/900 ICR	SMI 68010-01	Krytox Grease	InnovOx
APK 43040-02	Degasser, Open Chamber	M9/900 ICR	APK 68501-01	InnovOx Lab Service Kit - Normal Application (Boxer Pump)	InnovOx
HFL 00081	Capsule Filter, High Capacity, 40 micron	M5310 C/5310 C	APK 68502-01	InnovOx Lab Service Kit - Harsh Application (Boxer Pump)	InnovOx
HFL 61000-01	Cartridge Filter, 50 micron	M5310 C/5310 C	APK 68601-01	InnovOx Online Service Kit - Harsh Application (Boxer Pump)	InnovOx
HFL 61010-01	Bag Filter, PPE, 50 micron	M5310 C/5310 C	APK 68504-02	InnovOx Air Filter Option (Year Supply)	InnovOx
APK 74017-01	500 RL Sample Pump Kit	500 RL	RGT 68003-01 ²	Hydrochloric Acid, 3N (Bulk Reagent)	InnovOx
APK 74160	500 RL DI Reservoir/Resin Replacement	500/900	RGT 68006-01 ²	Phosphoric Acid, 6M (Bulk Reagent)	InnovOx
900 MAINT	12-Month 900 Series Consumables Kit	900	RGT 68025-01 ²	Sodium Persulfate, 30% W/V (Bulk Reagent)	InnovOx
ACT 00070-02	ICR Chemical Trap, 900	900	ASM 71220-01	Boron Reagent Refill	Boron
APK 96004-01	Resin Bed, 900	900	ASM 71235-01	Boron Pump Tubing	Boron
ATU 96200	Sample Pump Tubing, 900	900	ASM 71255-01	Boron Set of Columns	Boron
HMI 89070	Epson Thermal Printer Paper	Multiple	ASM 71260-01	Boron Zero Column	Boron
APK 97000-01	Pump Head Assembly Kit	CheckPoint	ASM 71265-01	Boron Reagent Column	Boron
APK 97010-01	Consumables Kit	CheckPoint	HMI 71125-01	80-mm Filter Media, 5-pack	Boron
APK 97310-01	Filter Element Kit	CheckPoint	HTF 71140-01	Boron Inline 15 micron Filter	Boron
EMI 20240-01	Spare Battery	CheckPoint	HTF 71141-01	Boron 15 micron SS Inline Filter Media	Boron
APK 68050-01	Reagent, Na ₂ S ₂ O ₈ , 6-pack (Lab Analyzer Only)	InnovOx			
APK 68051-01	Reagent, Na ₂ S ₂ O ₈ , Single-pack (Lab Analyzer Only)	InnovOx			
APK 68052-01	Reagent, Na ₂ S ₂ O ₈ , 8-pack (On-Line Analyzer Only)	InnovOx			
SCH 68110-01	3M Hydrochloric Acid - 2.5L	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			

² Bulk Reagents are only available in NAM

how to order

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