



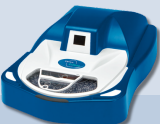
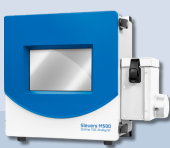
SIEVERS* LIFE SCIENCES INSTRUMENTATION

For rapid testing and continuous monitoring of ultra pure water and manufacturing processes

Gain confidence and ensure quality with process analytical technology (PAT) for microbial testing and contamination control.

Only Sievers can provide testing for all four critical pharmaceutical parameters:

Bioburden / Rapid Microbial Methods (RMM) – Endotoxins – Total Organic Carbon (TOC) – Conductivity

INSTRUMENT	Sievers Soleil Rapid Bioburden / RMM	Sievers Eclipse Bacterial Endotoxins Testing (BET)	Sievers M500 Online TOC / Real-time Testing and Conductivity	Sievers M9 Lab, At-Line & Online TOC and Conductivity	Sievers CheckPoint TOC Sensor
					
USES	Ultrapure Water, Water for Injection, Cleaning Validation, Process Water, Raw Materials, In Process	Ultrapure Water, Water for Injection, Cleaning Validation, Raw Materials, In Process, Final Product	Ultrapure Water, Water for Injection	Water for Injection, Cleaning Validation, In Process, Final Product. Available in Lab, Portable, or Online	Ultrapure Water, Water for Injection
RANGES	<10 - 10,000 biotics/100 mL	0.005 - 50 EU/mL (standard curve and PPCs embedded on microplate)	0.03 ppb - 2.5 ppm TOC	0.03 ppb - 50.0 ppm TOC	0.21 ppb - 1.0 ppm TOC
TIMING	Results in less than 45 minutes	Less than 10 minute setup, time to results depends on reagent used	Results in 3 minutes for continuous online measurements	Results in 2 minutes (4 seconds with the optional Turbo mode)	Selectable: 15 seconds to 8 hours in online mode; 10 minutes in grab mode
UNIQUE TO SIEVERS	Near real-time bioburden data that correlates to plate counts	Just minutes of hands-on time and minimal retests using centripetal microfluidics	Validation support for real-time release testing (RTRT)	Simultaneous TOC & conductivity compliance testing	Lightweight, portable testing
Compatible with DataShare Elite Software					

To learn more about Sievers life science instruments and applications, visit sieversinstruments.com

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