

5000TOC Total Organic Carbon Sensor

Certified Reference Standards

System suitability testing is required by the United States Pharmacopoeia USP <643> and European Pharmacopoeia EP 2.2.44 to qualify instruments used for total organic carbon (TOC) measurements. The System Suitability Standards Set from Thornton provides the solutions necessary to perform the testing methods essential for conformance with USP <643> and EP 2.2.44. Thornton uses only USP Reference Standards, thereby assuring consistent quality and compliance.

For more information, or to place an order, please see the contact information on page two. For your convenience, you can also request a customized annual order, with regularly scheduled shipments. Please contact Thornton Customer Service for more information.

System Suitability and Calibration Sets for the 5000TOC Sensor

Description	Part No.
System Suitability Standards Set, including:	58 091 526
1 bottle of 500 ppb System Suitability Solution as p-Benzoquinone, USP (R_{SS})	
1 bottle of 500 ppb Standard Solution as Sucrose, USP (R_S)	
2 bottles of Reagent Water (R_W)	
Calibration Standards Set, including:	58 091 529
1 bottle of 500 ppb Calibration Solution as Sucrose, USP	
1 bottle of 250 ppb Verification Solution as Sucrose, USP	
2 bottles of Calibration Blank Solution	

All 5000TOC standards are packaged in 500 mL bottles and include a Reference Certificate for documentation support.



Note: System Suitability Standards and Calibration Standards are perishable products. The USP and EP recommend that System Suitability Standards and Calibration Standards must be in a fresh condition; therefore, testing should be performed as soon as possible after the solutions are manufactured.

To ensure that System Suitability Standards and Calibration Standards arrive in a timely manner, all Thornton System Suitability Standards and Calibration Standards are shipped via overnight courier.



System Suitability Test and TOC Calibration Kit for the 500TOC Sensor

System Suitability Testing and Calibration for TOC measurements are critical elements for pharmaceutical water production process monitoring. The System Suitability Standards and Calibration Standards for TOC measurements are designed for use with the Thornton System Suitability Test Kit (P/N 58 091 525) comprised of a pump, mounting brackets, AC adapter, tubing, standard operating procedure (SOP) and carrying case. The System Suitability Test Kit attaches quickly and easily for trouble-free testing and calibration. System Suitability Standards and Calibration Standards are sold separately.



Combination System Suitability Test, TOC and Conductivity Calibration Test Kit (P/N 58 091 534) shown mounted to 500TOC Sensor. Solutions sold separately.

Combination System Suitability Test, TOC and Conductivity Calibration Test Kit for the 500TOC Sensor

For applications requiring system suitability testing and full calibration testing capability, including flow rate sensor, temperature sensor, conductivity and TOC calibration, the Combination System Suitability Test and Calibration Test Kit (P/N 58 091 534) provides the necessary items to complete this function. This kit includes a pump, mounting brackets, AC adapter, calibrated conductivity sensor, 5 foot patch cable, 316L SS flow housing, tubing, SOP and a carrying case. Conductivity and temperature sensors are traceable to NIST and ASTM D1125 and D5391. System Suitability Standards and Calibration Standards are sold separately.

Conductivity Calibration Test Kit for the 500TOC Sensor

For installations already using the System Suitability Test Kit (P/N 58 091 525), the Conductivity Calibration Test Kit (P/N 58 091 528) can be purchased separately. This kit is comprised of a calibrated conductivity sensor, 5 foot patch cable, 316L SS flow housing, housing mounting bracket, tubing, and SOP (items fit into standard System Suitability Test Kit carrying case). Conductivity and temperature sensors are traceable to NIST and ASTM D1125 and D5391. System Suitability Standards and Calibration Standards are sold separately.

Description	Part No.
System Suitability Test and TOC Calibration Kit	
Includes pump, mounting brackets, AC Adapter, tubing, SOP and carrying case	P/N 58 091 525
Combination System Suitability Test, TOC and Conductivity Calibration Test Kit	
Includes pump, mounting brackets, AC adaptor, calibrated conductivity sensor, 5 foot patch cable, 316L SS flow housing, tubing, SOP and a carrying case	P/N 58 091 534
Conductivity Calibration Test Kit	
Includes calibrated conductivity sensor, 5 foot patch cable, 316L SS flow housing, housing mounting bracket, tubing, and SOP	P/N 58 091 528

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