

**Automatic Clinical Chemistry Analyzer — Elevate Lab Efficiency: High-Precision Automatic Chemistry Analyzer MSCL311SWISS**



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**Introduction: Performance and Precision for the Modern Clinical Lab**

The **MSCL311SWISS Auto-Chemistry Analyzer** is a compact, benchtop system engineered for quantitative clinical chemistry analysis of human serum, plasma, urine, and other fluid samples. Designed specifically for laboratory research personnel and equipment purchasers, the MSCL311SWISS delivers a powerful combination of **high throughput, superior measurement precision, and operational safety** in a space-efficient design. Choose the MSCL311SWISS to achieve reliable, accurate results while optimizing your laboratory's workflow.

**Key Benefits & Solutions for Core Lab Challenges**

The MSCL311SWISS is built to eliminate common frustrations in mid-to-small volume

clinical and research environments, ensuring your team spends less time troubleshooting and more time analyzing critical data.

<b>Lab Pain Point</b>	<b>MSCL311SWISS Solution (Key Benefit)</b>
<b>Workflow Bottlenecks &amp; Turnaround Time (TAT)</b>	<b>High Throughput and STAT Capability:</b> Processing up to <b>200 tests per hour</b> with a dedicated <b>STAT function</b> , the MSCL311SWISS drastically reduces sample backlog and accelerates critical result delivery.
<b>Reagent and Sample Wastage</b>	<b>Optimized Micro-Volume Handling:</b> Precise sample volumes of <b>2µl to 70µl</b> and reagent volumes of <b>20µl to 350µl</b> ensure minimal consumption, significantly lowering operational costs without sacrificing accuracy.
<b>Carryover, Contamination, and Maintenance</b>	<b>Intelligent, High-Precision Probe System:</b> Features a <b>Teflon coating</b> to prevent carryover, coupled with <b>anti-collision</b> and <b>liquid level detection</b> functions. The probe performs <b>automatic internal and external washing</b> , guaranteeing sample integrity and maximizing system uptime.
<b>Inaccurate Results due to Temperature Fluctuation</b>	<b>Rock-Solid Reaction Temperature Control:</b> The reaction system maintains a precise temperature of <b>37 ± 0.2°C</b> , eliminating thermal variability as a source of error and ensuring reaction kinetics are strictly controlled for highly quantitative results.
<b>Data Integrity and Regulatory Compliance</b>	<b>Advanced Quality Control (QC) and LIS Integration:</b> Supports the <b>Westgard multi-rule</b> and various non-linear calibration curves (Spline, Logit-4P/5P). <b>Bi-directional LIS connectivity</b> via the <b>HL7 protocol</b> ensures seamless, compliant data

Lab Pain Point	MSCL311SWISS Solution (Key Benefit)
	management and reporting.

## Technical Specification: Emphasizing Precision and Reliability

The MSCL311SWISS's robust engineering guarantees consistent, reliable performance for all your diagnostic and research needs.

- **Model Designation:** MSCL311SWISS
- **Test Throughput:** 200 tests per hour
- **Analysis Methods:** End-point, Fixed-time, Rate (Kinetic), and Turbidimetry
- **Sample Capacity:** 37 sample positions
- **Reagent Capacity:** 28 refrigerated reagent positions with independent cooling switch
- **Sample Volume Range:** Precise 2µl to 70µl
- **Reagent Volume Range:** Accurate 20µl to 350µl
- **Reaction Cuvettes:** 48 reusable cuvettes with 6mm optical length and automatic washing
- **Mixer:** Independent stirring probe for effective mixing
- **Reaction Temperature Control:**  $37 \pm 0.2^\circ$  for maximum enzymatic accuracy
- **Light Source:** Long-life 6V/10W halogen lamp
- **Spectrophotometry:** Post-spectral analysis
- **Wavelengths:** Dedicated filters at 340nm, 405nm, 450nm, 510nm, 546nm, 578nm, 630nm, and 700nm
- **Absorbance Linearity:** **0 to 3.0Abs**
- **Calibration Capabilities:** Comprehensive Linear (K factor, 1/2/multi-point) and Non-Linear (Spline, Polygon, Logit-4P, Logit-5P)
- **Quality Control (QC):** Real-time QC, Westgard multi-rule, Cumulative sum check, and Twin Plot (2D)
- **Operating Software:** Compatible with Windows 7/8/10 (32 or 64 bit)
- **Connectivity:** Bi-directional LIS via HL7 protocol and LAN port access
- **Certification:** CE, FDA, ISO9001, and ISO13485 certified

## Conclusion: Your Partner for Diagnostic Accuracy

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The MSCL311SWISS Auto-Chemistry Analyzer provides the **unwavering precision and operational efficiency** your laboratory requires. Equip your facility with a system that reduces manual errors, minimizes reagent waste, and delivers rapid, reliable results—a smart investment for any forward-thinking lab equipment purchaser.