

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.

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

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.