YL9900S LC/MS
YL9900L LC/MS

Single Quadrupole Compact Mass Spectrometer for Liquid Sample
YL9900 LC/MS quickly provides essential information and improves the chemist’s workflow. Modern organic labs have become automated, yet real-time mass assays remain just out of reach.

→ YL9900 LC/MS solves this!

YL 9900 MS is the smartest instrument for performing a mass spec solution, if you are a biopharmaceutical company, academic teaching/research lab or any industry requiring mass assays.

- **YL9900 LC/MS Delivers:**
  - Positive and negative ions analysis
  - ESI / APCI (switchable with minimal effort, optional installation)
  - The first mass spec which fits in a fume hood with the sash closed
  - Easy access to the YL9900 LC/MS:
    - 10 connectors located on the front of the instrument
    - (8 I/O connectors, USB port and computer connector)
  - Integrated solutions:
    - FIA
    - LC or UPLC
    - Flash
    - Reaction monitoring
    - TLC

- **Software**
  - An inviting interface with powerful depth
    - Mass Express™, Data Express™.
  - YL-Clarity both LC and MS with MS Extension only.
Maximize your Results and Investment
Elegant stand - alone Integrated solution

Flow Injection Analysis (Direct Injection)
Real-time reaction monitoring:
Understand kinetics and reach intelligent quench decisions

LC or UPLC/MS
A mass detector which can be integrated into existing HPLC and UPLC systems
Replacing expensive mass spectrometers purchased from another era

Flow Synthesis/MS
On-line flow chemistry reaction monitoring

Flash / MS
Mass directed (or Mass confirmed, UV directed) fraction collection from normal phase flash chromatography, prep LC and SFC.

TLC / MS
Mass confirmation of flash fraction:
Eliminate TLC plate spotting or 2nd guessing UV peaks and TLC spots
Simple!
We focused in the minimum steps and most efficient range of motion required for decision-bearing answer.

Ultimate confidence!
You can export cdf and csv files and you have thought of all possible options for data archiving and interpretation.

Auto tune
The YL9900 LC/MS uses a pressurize calibrant delivery system for both positive and negative tuning mixes which are placed inside.

You can also set parameters manually.

Sensitivity
You can overcome poor resolution with UV detector or other detectors. Selective ion mode gives you a high selectivity for all individual chemicals.

Application
Whether your application is FIA, Flash, LC, UPLC or flow reaction monitoring, our data acquisition and workflow approaches are the same.

Powerful YL-Clarity
- YL-Clarity integrates HPLC/MS control of all operation parameters
- You can use the optional NIST Library and User Library
- It is designed for 21 CFR Part 11 Compliance and fully compatible with all Windows OS.
The CHIEF MATE of your LAB!

- **Compact Size**
- **High Performance**
- **Ideal Design**
- **Easy Operation**
- **Fast Analysis**

**YL9900 LC/MS**
Unrivalled expertise in mass spectrometry just for the chemist

**ESI** Electro spray Ionization

**APCI** Atmospheric Pressure Chemical Ionization

Ionization technique: Patent-pending design
# YL9900 LC/MS (Model S and L)

The smartest mass spec designed just for Chemists!

## Specification

<table>
<thead>
<tr>
<th>YL9900 LC/MS</th>
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<tbody>
<tr>
<td><strong>Mass Analyzer</strong></td>
<td>Single Quadrupole</td>
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<tr>
<td><strong>Mass Range</strong></td>
<td>S: 10 ~ 1,200 m/z, L: 10 ~ 2,000 m/z</td>
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<tr>
<td><strong>Scan Speed</strong></td>
<td>10,000 m/z/s</td>
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<tr>
<td><strong>Ion Source</strong></td>
<td>ESI / APCI (Option)</td>
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<td><strong>Polarity</strong></td>
<td>Positive / Negative ion switching in single analysis</td>
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<tr>
<td><strong>HPLC Flow Rate</strong></td>
<td>ESI: 10 µL/min to 1 mL/min, APCI: 10 µL/min to 2 mL/min</td>
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<td><strong>Resolution</strong></td>
<td>0.5 ~ 0.7 m/s (FWHM) at 1,000 m/z/s</td>
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| **Sensitivity** | 10 pg reserpine (FIA - 5 µL injection at 100 µL/min)  
| | 100:1 S/N (RMS) with ISIM of m/z 609.28  
| | 100 pg reserpine (FIA - 5 µL injection at 100 µL/min)  
| | 100:1 S/N (RMS) with full-scan acquisition from m/z 100 to m/z 1,200 |
| **Accuracy** | ± 0.1 m/z |
| **Stability** | 0.1 m/z over 12 hour |
| **Gas** | N₂, 98 %, 60 psi |
| **Gas Consumption** | 8 L/min |
| **Weight** | 32 kg |
| **Dimensions (H × W × D, mm)** | 660 × 280 × 560 |
| **Power Consumption** | Max. 300 VA (MS)  
| | Max. 550 VA (Rotary pump) |
| **Software** | Mass Express™ / Data Express™  
| | YL-Clarity |
| **Warranty** | 1 year |