

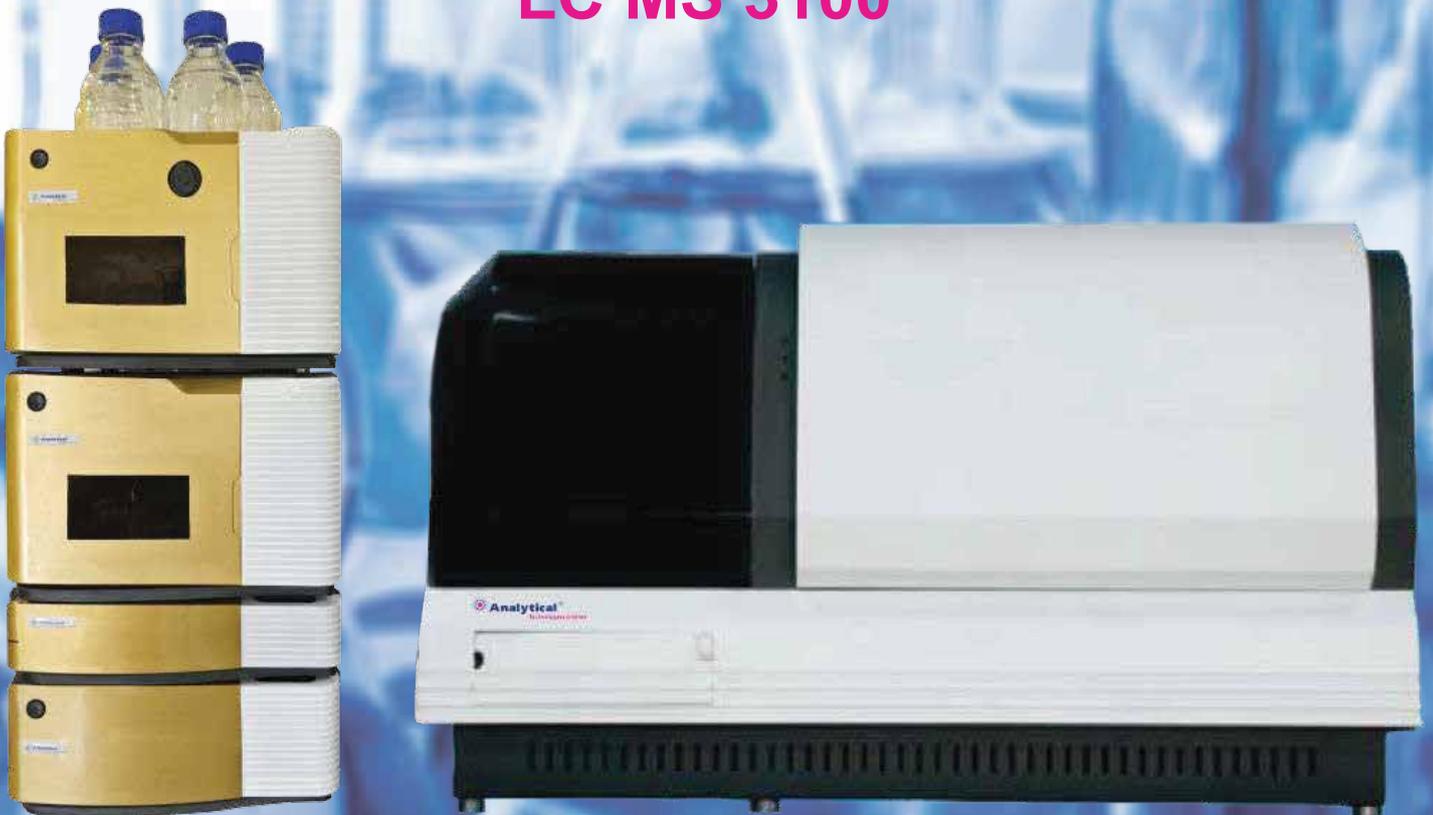
TO BE A WORLD-LEADING

# Analytical Technologies

PROVIDER

## Liquid Chromatography Mass Spectrometry

**LC MS 3100**



EPC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## Cost-effective LC-MS solution with top performance

LC-MS 3100 Liquid Chromatograph Mass Spectrometer is a commercial LC-MS system which meets the national standards for LC-MS and for determination of chemicals in food and environment. Our Patented heating technology and nebulizer gas technology help increase vaporization efficiency and background noise while increasing sensitivity. Powerful ChemAnalyst LC-MS chemical workstation software simplifies all operation procedures and advanced networking function enables remote control instrument and view test result.

### ►► Features:

- Quick scan speed (maximum 10,000 amu/s, bar chart)
- Wide scan range (10-2000 amu)
- High detection sensitivity
- Auto calibration and tuning function
- LC high pressure pump, auto sampler, thermostat, UV detector, mass spectrum
- Control and data process are integrated in the software Wireless vacuum chamber

### ►► Applications:

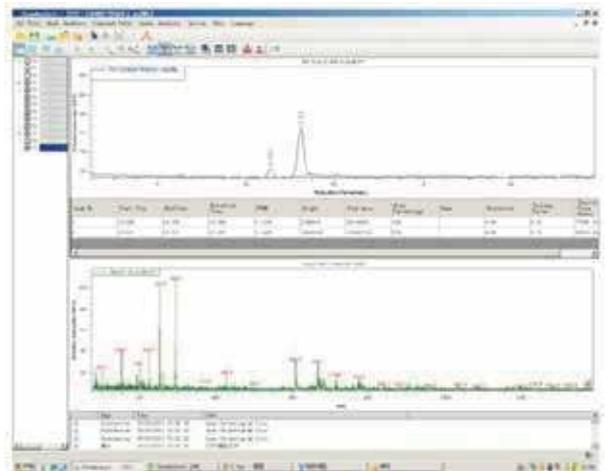
LC-MS 3100 is a necessary analytical tool for organism analysis lab, drug and food laboratory, production process control, quality control department, etc.

### ►► Technical Specifications:

- **Mass Range** : 10-2000 amu
- **Mass accuracy** :  $\pm 0.20$  amu (mass calibration range of scan mode)
- **Mass axis stability** :  $\pm 0.05$  amu/12h (under constant temp. of  $\pm 2^{\circ}\text{C}$ )
- **Scan rate : standard mode** : 15000 amu/s, fast scan mode: 15000 amu/s
- **Resolution** : unit resolution (FWHM $\leq$ 0.7amu)
- **SIM signal to noise ratio** : ESI, 200 ul/min, SIM
- **Peak area Repeatability** : RSD 4.6%/0
- **Retention time repeatability** : RSD
- **Sensitivity ESI positive** : 1pg reserpine, S/N > 10,000:1 (RMS)
- **Cross talk** : 0.003 %
- **Minimum pause time** : 1 msec
- **Minimum dwell time** : 0.8 msec

### ►► Advanced Software:

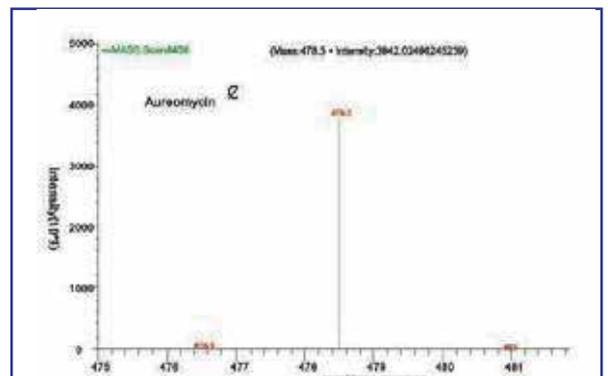
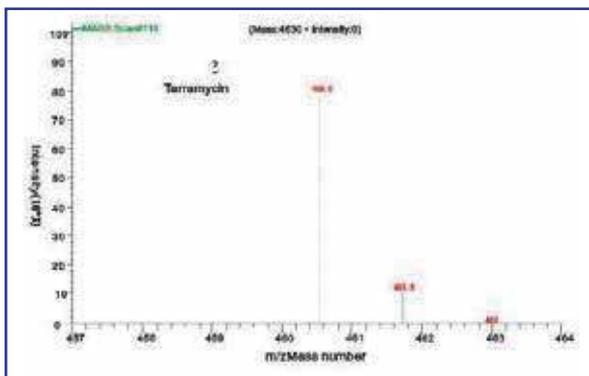
Qualitative analysis- Full scan mode for qualitative analysis of target molecules in the sample  
Quantitative analysis- Selected ion monitoring mode (SIM mode) for quantitative analysis of target molecule  
With higher detection ability-SIM mode is used to analyze low concentration or low ionization efficiency samples while Full scan mode is able to analyze higher concentration or high ion efficiency unknown sample  
The multi-channel acquisition function of LC-MS 3100 enables to analyze more compounds in a single sample scan. During analysis users can select positive or negative ionization mode, selective ion monitoring (SIM) and full scan mode are or use all modes in a single test, thus greatly improving analysis speed and working efficiency



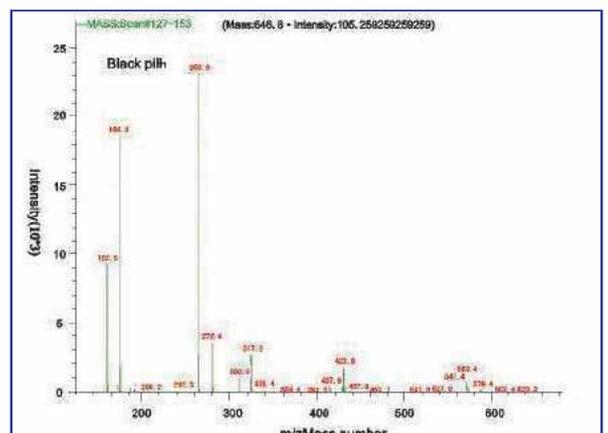
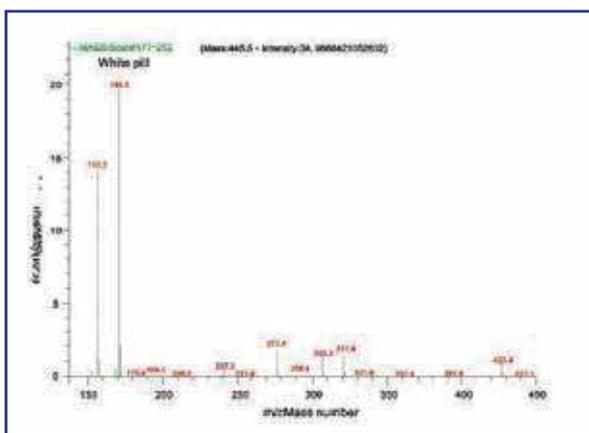
Power LC-MS chemical workstation software (chemAnalyst) simplifies all operation procedures from tuning to method set, sampling to qualitative and quantitative data analysis. Advanced networking function enables you to remote control instrument and view test results.

## 1. Medicine production monitoring

### A. Antibiotics



### B. Bufferin





▶▶ **HPLC Servicing, Validation, Trainings and Preventive Maintenance :**

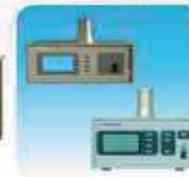
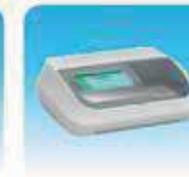
- HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.
- Trainings :We also take up preventive maintenance to reduce downtime of HPLC’s Trainings.
- AMC’s/CMC : We offer user training both in-House and at customer sites on PLC principles, operations, troubleshooting.
- Validations : We have protocols for carrying out periodic Validations as per GLP/ GMP/U SFDA norms.
- Instruments : We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.



▶▶ **About Analytical Technologies**

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the globe. Analytical Technologies Limited is an ISO :9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

▶▶ **Our Products & Technologies**

						
UV/VIS Spectro 2060+ Double Beam	FTIR	Gas Chromatograph 3000	Gas Chromatograph 2979 Plus	Flash Chromatograph	Atomic Absorption Spectrophotometer	Liquid Partical Counter
						
Optical Emission Spectrophotometer	DSC/TGA	NOVA 2020 plus Automated Bio Chemistry Analyzer	HEMA 2020 Hematology Analyzer	Micro Plate Reader/Washer	URINOVA 2800 Urine Analyzer	Total Organic Carbon
						
Fully Automated CLIA	NOVA Basic Semi-Auto Chemistry Analyzer	PCR/Gradient PCR/ RTPCR	Blood Gas Analyzer	Random access Analyzer for immunoassay Proteins & clinical chemistry	Semen Analyzer	Water purification system

▶▶ **Regulatory compliances**



▶▶ **Corporate Social Responsibility**

Analytical Foundation is a Nonprofit Organization (NGO) found for the purpose of:



**Analytical**  
**Foundation**

1. Research & Innovation Scientist's awards / QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [info@analyticalfoundation.org](mailto:info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops / Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds, souls and body by means of Yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

▶▶ **Reach us @**



**HPLC Solutions    MultipleLabs    Analytical Bio-Med    Analytical Distributors    Analytical Foundation (Trust)**

**Corporate & Regd. Office:**  
Analytical House, # E67 & E68,  
Ravi Park, Vasna Road, Baroda,  
Gujarat 390 015. INDIA

T: +91 265 2253620  
+91 265 2252839  
+91 265 2252370  
F: +91 265 2254395

E: [info@hplctechnologies.com](mailto:info@hplctechnologies.com)  
[info@multiplelabs.com](mailto:info@multiplelabs.com)  
[info@analyticalgroup.net](mailto:info@analyticalgroup.net)  
[info@analyticalbiomed.com](mailto:info@analyticalbiomed.com)

W. [www.ais-india.com](http://www.ais-india.com)  
[www.analycalgroup.net](http://www.analycalgroup.net)  
[www.hplctechnologies.com](http://www.hplctechnologies.com)  
[www.multiplelabs.com](http://www.multiplelabs.com)

Sales & Support Offices:  
across the country :  
Distributors & Channel  
partners World Wide

Note : Company reserves rights to add/delete/modify the contents /technical specificationsof the catalogue without prior notice.