

# Automatic Sampling Spectrophotometer



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**Analytical Technologies Limited**

An ISO 9001 Certified Company

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

## Features:

- Equipped with a high-precision syringe pump, it delivers stable liquid flow rate and accurate liquid sampling, automatically completing the entire process of sampling, cleaning and detection. It uses high-precision cuvettes for colorimetric testing, featuring strong anti-interference ability, direct concentration reading and accurate test results.
- Cuvettes cover all sizes and are compatible with all materials, featuring unrestricted performance and easy replacement. The tube material is continuously upgraded; the core flow path adopts PTFE + 316L stainless steel, and the pump head/valve uses ceramic plungers + wear-resistant coatings.
- The test pipelines and cuvettes are cleaned via automatic water washing, rinsing, and air purging. When switching between different samples, residual removal in the pipeline cavity is achieved through solution reverse injection technology, and a pollution-free detection channel is established based on the principle of hydrodynamic displacement.
- Standard curves are generated automatically, with faster data fitting. Historical curves can be called with one click, and raw data is stored permanently.
- Automatic dilution for over-range samples, one-click testing for high-concentration samples: Data is monitored in real time during detection, and automatic dilution is triggered instantly when concentration exceeds the limit, with no manual intervention required.
- Integrates multiple functions including photometric measurement, quantitative analysis, kinetic analysis, wavelength scanning, and nucleic acid/protein detection.
- The operating software has an audit trail function, facilitating users' daily instrument management and ensuring data security. Automatically records testing operation traces.

## Specifications:

Model	ASS3800	ASS3900
Optical System	Single Beam	Double Beam
Wavelength Range	190-1100nm	
Spectral Bandwidth	2nm	
Wavelength Accuracy	± 0.5nm	
Wavelength Repeatability	0.2nm	
Transmittance Accuracy	± 0.5%T	
Transmittance Repeatability	0.2%T	
Baseline straightness	0.001A/h	
Photometric Range	0-9999C, -0.3-3A, 0-200%T	
Stray Light	0.05%T@220nm,360nm	
Stability	±0.001A/h@500nm	

## AS-3050 Auto Sampler



### Features:

- Efficient batch processing reduces labor costs.
- The software automatically calibrates the sampling needle position in real time. Combined with the 3D coordinate dynamic compensation algorithm, it ensures accurate sampling position of the needle tip and prevents sample wall hanging or splashing loss.
- Support 50-position automatic sample loading disk. A single loading operation can run for over 2 hours. Combined with the automatic establishment and dilution of standard curves, it enables the entire process of "standard curve establishment - sample collection - pre-treatment - injection - testing" to be completed in one click. This eliminates human error, and simultaneously enhances efficiency and accuracy.

### Specifications:

Sample Quantity : 30mL X 50  
20mL X 60 (optional)

## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :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** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

**Instruments** :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 global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, 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-TS 2080



Infra FTIR



Optima Gas  
Chromatograph  
3007



Optima Gas  
Chromatograph



Flash  
Chromatograph



Atomic Absorption  
Spectrophotometer



Liquid Particle  
Counter



Optical Emission  
Spectrophotometer



STA



Semi Auto Bio  
Chemistry Analyzer



LCMS



GCMS



XRD



Total Organic  
Carbon 3800



Fully Automated  
CLIA



NOVA-2100  
Chemistry Analyzer



PCR/Gradient PCR/  
RTPCR



TOC  
Analyzer



Laser Particle  
Size Analyzer



Ion Chromatograph



Water purification  
system

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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 @



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