

# Microplate Reader

## M- 2201



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

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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

Microplate Spectrophotometer is designed for a wide range of applications, from nucleic acid and protein quantification to cell-based assays and ELISAs.

Analytical bridges the gap between high-cost, high-performance, monochromator-based absorbance readers and the lower cost, lower performing filter-based absorbance readers by providing excellent, full spectral UV/Vis measurements in a compact, efficient and robust design.

Analytical high quality optical system incorporates a precision monochromator for wavelength selection without using interference filters. Microplate assays in 6- to 384-well plates are quickly and efficiently run via ATL Software.

When sample volumes are critical, the optional ATL Micro-Volume Plates allow up to sixteen or forty-eight 2  $\mu$ L samples to be measured quickly and easily in the Model.

For the budget conscious laboratory focused on important nucleic acid and protein quantification as well as standard ELISA and other colorimetric assays, the Analytical Microplate Spectrophotometer offers unsurpassed versatility. To further automate your process, ATL can be integrated to an optional robot compatible model.

## ►► **Features:**

- Monochromator wavelength selection from 200 nm to 999 nm in 1 nm increments
- 6- to 384-well plate reading capability
- Automated pathlength correction for direct quantification without diluting samples
- Spectral scanning, endpoint, kinetic, and well area scanning measurements
- ATL Data Analysis Software included
- Integrated detector and electronics for low-noise measurements
- Xenon flash lamp to last the instrument's lifetime
- Robust housing design for longevity even under heavy usage
- Compatible with ATL Micro-Volume Plates for low (2  $\mu$ L) volume, ATL or cuvette measurements, strips, flat bottom and U bottom plates
- Linear and or orbital shaking
- USB port facility

## ▶▶ Typical Applications:

- Nucleic acid quantification
- Protein quantification
- 260/280 and 260/230 purity measurements
- ELISA
- Enzyme kinetics
- Cytotoxicity
- Cell proliferation
- Micro-volume assays with Take3 plate

## ▶▶ Configurations:

Microplate Spectrophotometer

Microplate Spectrophotometer, automation compatible

## ▶▶ Optional Accessories:

- ATL Micro-Volume Plates
- ATL Secure for 21 CFR Part 11 compliance
- Product Qualification Package
- Patented ATL.
- Absorbance Test Plate



configuration is compatible with  
ATL Microplate Stacker.

## ►► Specifications:

### General

Detection method	: Absorbance
Read method	: End point, kinetic, spectral scan, well area scan
Microplate types	: 6 to 384 wells
Other labware	: Take3 Micro-Volume Plate
Software	: Data Analysis Software
Automation	: Compatible with 3rd party automation

### Absorbance

Wavelength range	: 200 nm – 999 nm, selectable in 1 nm increments
Bandpass	: 4 nm
Dynamic range	: 0 – 4.0 OD
Resolution	0.0001:

### Monochromator wavelength

Accuracy	: ±2 nm
OD accuracy	: 0.0 to 2.0 OD: ±1% ±0.010 OD
2.0 to 2.5 OD	: ±3% ±0.010 OD
OD linearity	: 0.0 to 2.0 OD: ±1% ±0.010 OD
2.0 to 2.5 OD	: ±3% ±0.010 OD
OD repeatability	: 0.0 to 2.0 OD: ±1% ±0.005 OD
2.0 to 2.5 OD	: ±3% ±0.005 OD
Reading speed	: 96 wells: 15 seconds 384 wells: 31 seconds
Incubation Temperature	: 4°C to 45°C

## ►► Physical Characteristics:

Power	: 100 – 240 Volts AC. 50/60 Hz
Dimensions	: 12" W x 12.5" D x 7.7" H (30.5 cm x 31.8 cm x 19.6 cm)
Weight	: <15 lbs (6.8 kg)

## ►► Regulatory:

CE marked In Vitro Diagnostic use configurations available.

▶▶ **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, 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/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)**

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