

PC-controlled, monochromator-based absorbance reader ideal for multi-user labs running a variety of assays including those that need spectral scanning

Biochrom[®] Asys UVM340

Microplate Reader



Key Features

- No need for filters! Monochromator optics for measurements from 340nm to 800nm enables a wide range of assays to be performed
- Single or dual wavelength measurements plus kinetic measurements
- Single channel optical system with self-check and automatic calibration for precision measurements
- Shaking, ensures complete mixing of solutions, cells to stay in suspension and colored solutions to be homogenized
- Wavescan for contamination detection, peak absorbance detection and product formation studies
- Automatic performance verification ensures accuracy of data
- Plate formats from 12-96 well can be used for flexible applications
- Real-time reference measurement for increased accuracy

Optional

- QC Plate - checks the mechanical alignment of both the plate transport and the optical path and tests reader accuracy and precision.
- Analysis software: KIM and MikroWin[™]

Software

The UVM 340 is supplied (free of charge) with:

- **DigiRead**
Controls the plate reader and collects the data to the Windows[®] clipboard for transfer to a spreadsheet.
- **ScanPlus**
Scanning software for wavescans of single wells

Optional additional software packages include:

- **KIM**
Easy to learn, yet powerful data reduction package covering all end-point assay requirements for 96 well plates.
Complete flexibility for advanced users
Report generator gives complete freedom to design customized reports
- **MikroWin 2000**
Advanced modular software for quantitative, qualitative and kinetic assay analysis.
Up to 12 different tests (or standard curves) may be defined on one microplate. Test controls or (standards and concentrations) may be assigned in any position, each individual control / standard is color coded to aid the user.

Applications

- Absorbance measurements: ELISA, protein quantitation, cell proliferation and cell survival assays
- Enzyme kinetic measurements requiring automatic readings at timed intervals
- Wavescan to determine sample purity
- Cell-based assays requiring shaking where cells need to stay in solution
- Assays measuring the changes of absorbance of NADH at 340nm
- Contamination detection, peak absorbance detection and product formation using spectral scanning

TECHNICAL DETAILS

Biochrom Asys UVM340 Microplate Reader

Measurement range	0.000 to 3.600 OD
Wavelength range	340 to 800nm
Wavelength selection	Monochromator; all wavelengths selectable in 1 nm intervals
Bandwidth	< 3nm
Accuracy	± 1% up to 2.0 OD
Reproducibility	± 0.5% up to 2.0 OD
Plate formats	12, 24, 48 and 96 well plate
Reading speed	35 seconds for a 96 well plate
Light source	30 watt Tungsten halogen lamp
Detection system	2 silicon diodes, one for measurement and one for reference
Measurement system	Single channel optical system with self-check and automatic calibration
Computer interface	RS-232C bidirectional and USB
Software	DigiRead, ScanPlus, KIM (optional), MikroWin 2000 (optional)
Validation	QC plate for checking alignment, absorbance accuracy, precision (optional)
Dimensions (WxDxH)	27 x 43 x 24cm (10.6"x 16.9"x 9.4")
Weight	10kg (22lbs)
Power requirements	90 to 250V, 50/60 Hz, 65VA

ORDERING INFORMATION

G019065090	Biochrom Asys UVM340 Microplate Reader
G019065010	Biochrom Asys UVM340 Microplate Reader with KIM s/w
G019065060	Biochrom Asys UVM340 Microplate Reader with MikroWin s/w (screening and curve fit)
G019065070	Biochrom Asys UVM340 Microplate Reader with MikroWin s/w (screening, curve fit & kinetics)
SG010160	QC check plate

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Distributor for Italy :

SisLab

SISLAB S.a.s.
Via Martiri Oscuri 10 , 20125 Milano
Tel. 02 2222 3968 , Fax. 02 9287 6689
Web : www.sislab.info , Email : info@sislab.it



Biochrom Ltd Tel: +44 1223 423723
 Fax: +44 1223 420164
 Email: enquiries@biochrom.co.uk
 www.biochrom.co.uk

Biochrom US Tel: (Toll free): 877- BIO-CHROM (877-246-2476)
 Tel: 508-893-8999
 Fax: 508-429-5732
 Email: sales@biochrom-us.com
 www.biochrom-US.com