

Biochrom[®] Anthos 2020

Microplate Reader

The Anthos 2020 is a robust standalone, single channel, filter-based absorbance reader with onboard software for routine absorbance assays.



Key Features

- Standalone instrument with onboard software for instrument control and data analysis
- Single-channel optics for precision measurements
- Single or dual wavelength measurements
- Four interference filters supplied as standard that cover most common absorbance assays
- Large display with easy to use keypad
- Additional wavelength filters from 400 up to 750 nm can be purchased separately to allow more specialized assays to be performed
- Readings can be performed at timed intervals - ideal for kinetic assays
- Quick set up - switch on and it's ready to use
- Calibration performed prior to each measurement - ensures accurate reading data
- Optional QC plate available for instrument validation
- Connects to a PC for data export
- Can connect to a printer

Software

The Biochrom Anthos 2020 has onboard software which includes the following analytical capabilities.

- Quantitative evaluation using standard curve including forecasting and curve-fitting
- Qualitative analysis including cut-off formulas and sample group identification
- Transformation formulas
- Plate layout, including assignment of blanks, standards, and controls
- Replicate elimination and test validation formulas for assay quality control
- Detailed graph view of multi-wavelength and measurement results
- Detailed curve information for multi-wavelength

The standalone unit is also supplied with ADAP 2.0 Basic PC software for flexibility in operation. User can operate the instrument in standalone or use ADAP 2.0 software for PC-control.

ADAP 2.0 Basic also allows for data export from the reader to a PC.

Applications

- Absorbance measurements: ELISA, total protein, cell proliferation and cell survival assays
- Enzyme kinetics measurements requiring automatic readings at timed intervals

TECHNICAL DETAILS

Biochrom Anthos 2020 Microplate Reader	
Photometric method	Transmission photometer
Plate Formats	96-well plates with standard ANSI SBS footprint
Light source	Tungsten halogen lamp
Photodetector	Silicon photodiode
Wavelength range	400 - 750 nm
Resolution	0.001 OD
Measurement range	0.000 – 3.3 OD
Accuracy	2% Abs at 1 OD
Linearity	<±0.75% and ±0.005 Abs from 0.1 Abs to 2.5 Abs
Reproducibility	<±0.3% at 1 OD
Reading speed	25 seconds single wavelength
Standard filters	405, 450, 492, 620nm
Additional filters	Optional. Filter wheel holds up to 8 filters
Power requirement	90-130V, 180-250VAC (autosensing) 47-63Hz
Parallel printer interface	25 pin
Serial interface	9 pin (RS232)
Quality control	Auto-calibration, auto-lamp adjustment, status report
Dimensions (wxhxd)	34.4 x 25.5 x 43.0cm (13.5"x 10.0"x 16.9")
Weight	10 Kg (22lb)

ORDERING INFORMATION

GF 22 550 11	Biochrom Anthos 2020 Stand Alone Microplate Reader with 4 standard filters (405, 450, 492, 620nm), onboard software, operator manual, power cable and serial cable
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Distributors Worldwide



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