

Biochrom[®] Anthos 2010

Microplate Reader

The 2010 is a robust PC-controlled, single channel, filter-based absorbance reader for routine absorbance assays



Key Features

- PC-controlled instrument using ADAP 2.0 Basic, an intuitive software program for instrument manipulation
- Single channel optics for precision measurement
- Single or dual wavelength measurements
- Four interference filters supplied as standard that cover most common absorbance assays
- 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
- QC plate available for instrument validation
- Data easily exported as a matrix or text for further analysis

Software

ADAP 2.0 BASIC SOFTWARE

Supplied as standard with the Biochrom Anthos 2010, ADAP 2.0 Basic can be used to control all mechanical functions of the microplate reader including the plate transporter, filter selection and calibration as well as endpoint, kinetic and multi-wavelength measurements. ADAP 2.0 Basic allows the user to obtain raw data from the instrument for single, dual wavelength, endpoint and kinetic measurements.

ADAP 2.0 Basic controls user access at different authorizations levels allowing users to work within FDA 21 CFR part 11 compliance and data can be stored or transferred to a spreadsheet for further analysis.

ADAP 2.0 PLUS SOFTWARE

An optional upgrade to ADAP 2.0 Plus has the same functionality as ADAP 2.0 Basic, as well as integrated 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
- Detailed graph view of multi-wavelength

Applications

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

TECHNICAL DETAILS

Biochrom Anthos 2010 Microplate Reader

Photometric method	Transmission photometer
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
Linearity	<±0.75% and ±0.005 OD from 0.1 OD to 2.5 OD
Reproducibility	<±0.3% at 1 OD
Reading speed	25 seconds single wavelength
Standard filters	405, 450, 492, 620 nm
Additional filters	Optional. Filter wheel holds up to 8 filters
Software language	English, German
Power requirement	90 -130V, 180-250VAC (autosensing) 47-63Hz
Serial interface	9 pin (RS232)
Quality control	Autocalibration, autolamp adjustment, status report
Dimensions (wxhxd)	32.6 x 17.3 x 43.5 cm (12.8" x 6.8" x 17.1")
Weight	6.6 kg (14.6lb)

ORDERING INFORMATION

GF 17 550 11	Biochrom Anthos 2010 Microplate Reader Standard with ADAP Basic software, 4 standard filters, operator manual, power cable and serial cable
GF 17 550 12	Biochrom Anthos 2010 Microplate Reader Standard Plus with ADAP Plus software, 4 standard filters, operator manual, power cable and serial cable
B032082	ADAP Plus Software

Distributors Worldwide



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