

Biochrom EZ Read 400

Microplate Reader



The Biochrom EZ Read 400 is a PC-controlled, single channel, filter-based microplate reader designed for ELISA, protein, and cell biology-based absorbance assays.



Key Features

- Filter-based microplate reader configured to meet your application needs, including options for ELISA assays, protein assays and cell biology assays.
- PC-controlled instrument supplied with ADAP Basic PC software which is used for instrument control and export of raw data to Microsoft® Excel for further analysis.
- USB connections for ease of use
- Choice of easy-to-use ADAP data analysis software packages to suit your application requirements
- Ergonomically designed instrument to minimize bench space required
- Ability to perform single or dual wavelength measurements to incorporate reference wavelength readings
- Readings can be performed at timed intervals, ideal for kinetic assays
- QC plate is available for instrument validation

Configured to Meet Your Needs!

Biochrom EZ Read 400 ELISA Reader

Includes filters for ELISA assays and a reference filter

ELISA Assay Substrate	Filter	Included
PNPP	405 nm	Yes
ABTS	405 nm	Yes
OPD	492 nm	Yes
Slow TMB	450 nm	Yes
Turbo TMB	450 nm	Yes
Ultra TMB	450 nm	Yes
Reference wavelength	620 nm	Yes

Biochrom EZ Read 400 Research Reader

Includes filters for ELISA assays, protein assays, cell biology assays, and a reference filter

Protein Assay	Filter	Included
Bradford	595 nm	Yes
BCA	562 nm	Yes
Lowry	650 nm	Yes

Cell Biology Assay	Filter	Included
MTT	570 nm	Yes
XTT	492 nm	Yes
Turbidity cell counting	620 nm	Yes

Control	Filter	Included
Reference wavelength	620 nm	Yes

Biochrom EZ Read 400 Flexi Reader

- Delivered as standard with 405, 450, 492, 620 nm filters
- If you're performing specialized assays you can choose up to 4 additional filters of your choice for a personally configured instrument. Filters can be chosen from 400 to 750 nm in one nm increments.

TECHNICAL DETAILS*

Biochrom EZ Read 400 Microplate Reader

Photometric Method:	Transmission photometer
Light Source	Tungsten halogen lamp
Photodetector	Silicon photodiode
Wavelength range	400 - 750 nm
Standard filters	405, 450, 492, 620 nm (additional filters variant dependent, see front)
Plate types	96 well plate (flat, round and v-bottomed well formats)
Resolution	0.001 OD
Measurement range	0.000 – 3.3 OD
Accuracy	<±0.5% at 1.0 OD at 450 nm
Linearity	<±0.25% and ±0.0025 OD from 0.1 OD to 2.5 OD at 492 nm
Reproducibility	<±0.25% at 1 OD at 450 nm
Reading speed	25 seconds single wavelength
Quality control	Autocalibration, autolamp adjustment, status report
Power supply	Voltage rating: 100VAC - 240 VAC; current rating: 50 /60 Hz, 1.5A
PC Connections	USB
Dimensions (d x h x w), Weight	31.5. x 18.2 x 43.5 cm (12.4 x 7.2 x 17.1 inches), 6.6 kg (14.6 lb)
LED indicators	Power on, lamp on
Standard Software	ADAP Basic (Optional: ADAP Plus and ADAP Expert) English, German
Validation	Optional check plate

*Technical details are subject to change

ORDERING INFORMATION

80-4001-40	Biochrom EZ Read 400 ELISA Microplate Reader
80-4001-41	Biochrom EZ Read 400 Research Microplate Reader
80-4001-42	Biochrom EZ Read Flexi Microplate Reader
SS01751	QC Plate for instrument validation
B032082	ADAP Plus Data Analysis Software
B032083	ADAP Expert Data Analysis Software

For more information and technical specifications.
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