

BP800

Microplate Reader

Instrumentation



The BP 800 Microplate Reader has all the features of a modern microplate photometer providing readily programmed (optional) assay protocols for Biohit diagnostics. With the help of intuitive user interface, new test protocols can be made fast and easily. Extensive on-board data reduction surpasses many personal computer software packages with its extensive curve-fitting, cut-off calculation, data transformation and validation capabilities. In addition to the printer interface, the instrument has a serial interface to be controlled with a personal computer for further processing and distribution of data.

- Multiple plate format capability
- Extensive on-board data reduction and analysis
- Includes curve-fitting, transformations and control validation
- Saves 75 custom assays and 8 test results in memory
- On-board diagnostic testing of optical and performance specifications
- UV option available

BP 800 Microplate Reader

OVERVIEW

On-Board Data Analysis

Simple to use and program via the reader soft-keys and a 2 x 24 LCD display, the BP 800's on-board data reduction capabilities surpass that of most PC software-packages:

Extensive curve fitting:

- Linear
- 2-P (logit/log)
- Cubic
- Quadratic
- 4-P
- Cubic-spline
- Point-to-point

Auto or manual plate layout for blanks, controls, standards and samples. Printed results in matrix, column, or both formats.

15 complete formulas per assay

- Control, blanking and assay validations formulas
- Transformation formulas
- Cut off formulas

On-board Diagnostic Testing

The BP 800 on-board diagnostics include the following:

- optics self-test checks for proper light intensity automatically and reports results
- The Universal plate assesses accuracy, linearity and repeatability

Applications

As a stand-alone microplate reader, the BP 800 is suitable for applications within the following areas:

- Clinical
- Biotechnology research
- Food processing
- Environmental
- Agricultural

SPECIFICATIONS

Plate type	24-, 48-, 96--well plates 384- and 60/72/96-well Terasaki plates (option)
Light source	Tungsten halogen
Photodetector	photodiode
Wavelength range	400 to 750 nm 340 to 750 nm (UV option)
Dynamic range	0 to 3.0 OD
Resolution	0.001 OD
OD Accuracy	< 1% at 2.0 OD typical
OD Linearity	< 1% at 2.0 OD typical < 3% at 3.0 OD typical
OD Repeatability	< 0.5% at 2.0 OD typical
Reading speeds	30/50 seconds single wavelength (96)
Read method	Endpoint, slow kinetics (PC control)
Diagnostics	Self-test, test plate software on board
Display	2 x 24 LCD display
Keypad	Membrane keypad w.25 keys
I/O	RS232 bidirectional serial interface Parallel Centronics printer interface
Weight	8 kg (18.5 lbs)
Dimensions	41.9 x 38.1 x 17.8 cm (16.5 D x 15 W x 7 H in)
Regulatory	CE Mark, ETL Mark for UL3101-01 CAN/CSA C22.2 No 1010.1 Conforms to IEC 1010-1 For in-vitro diagnostic use
Power	External 24 V power supply for 100-240 VAC @ 50-60 Hz
Filters included	5 cavity wheel 405, 450, 490, 630 (standard) 405, 450, 490, 630, 340 (UV option)

Cat. No.	Ordering information
740030	BP800 Microplate Reader
740031	BP800 Microplate Reader with UV option; including 340 nm filter
740032	BP Microplate Reader with NB option; reads Terasaki plates and microplates up to 384-well format