

BP 808 Microplate Reader



The BP808 Microplate Reader has all the features of a modern microplate reader providing ready programmed assay protocols for Biohit Elisa diagnostics. Integrated keypad

with LCD-display supported by menu-driven software with extensive on-board data analysis. Eight channel optics provides fast read time for kinetic applications.

- 8-channel microplate photometer for kinetic measurements
- Extensive on-board data analysis
- Includes curve-fitting, transformations and control validation
- Saves 75 custom assays and 8 test results in memory
- Programmable and variable shaking speed
- On-board diagnostic testing of optical and performance specifications
- IU option provides four-zone incubation and UV capability



BP 808 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 BP808'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

Flexible formulas

Enter up to 15 complete formulas per assay:

- Control, blanking, and assay validation formulas
- Transformation formulas
- General formulas
- 55 programmable assays onboard the BP808 which can be recalled instantly
- Up to 8 microplate test results saved in the reader's memory
- Stores up to 40 standard curves

Applications

As a stand-alone microplate reader, the BP808 is designed for applications within the following areas:

- Agricultural
- Biotechnology research
- Cell biology, counting, proliferation
- Clinical
- ELISA
- Environmental
- Food processing
- Environmental
- LAL
- Neuroscience

On-Board Diagnostic Testing

The BP800 diagnostics include the following:

- Optics self-test checks for proper light intensity automatically and reports results
- The Universal Test Plate tests accuracy, linearity, and repeatability

SPECIFICATIONS

Plate type	96-well plates
Light source	Tungsten halogen bulb
Photodetector	8 photodiodes, one reference
Wavelength range	380 to 900 nm
Dynamic range	0.000 to 4.000 Abs
Accuracy	±1% ±0.010 Abs, 0.000-2.500 Abs
Linearity	±1% from 0.000-2.000 Abs ±2% from 2.500-3.500 Abs
Repeatability	±0.5% ±0.005Abs, 0.000-2.500 Abs ±1.5% ±0.005Abs, 2.500-3.500 Abs ±2.5% ±0.005Abs, 3.500-4.000 Abs
Read method	Endpoint, kinetic
Reading speeds	5 seconds kinetic single well 12 seconds, single well 20 seconds, single well, dual wavelength
Temperature ctrl	From 4 °C above ambient to 50 °C (I opt.), well-to-well uniformity ±0.5 °C
Shaking	User-programmable speeds and timing
Diagnostic	Self-test, test plate software on board
Display Keypad	2 x 24 LCD display Membrane keypad w. 25 keys
I/O	RS232 bidirectional serial interface Parallel Centronics printer interface
Weight	13.6 kg (30 lb)
Dimensions	40.6 x 39.4 x 22.2 cm (16 D x 15.5 W x 8.75 H in.)
Power	0-240 V @ 50/60 Hz (external transformer)
Filters included	405, 450, 490, 630 405, 450, 490, 630, 340 (UV option)
Regulatory	CE Mark, ETL Mark for UL3101-1 CAN/CSA C22.2 No.1010.1 Conforms to IEC 1010-1

Cat. No.	Ordering information
740040	BP808 Microplate Reader
740041	BP808IU Microplate Reader with Incubator and UV capability; including 340 nm filter

Headquarters Biohit Oyj

Laippatie 1 • 00880 Helsinki • Finland • Tel. +358-9-773 861 • Fax: +358-9-773 86 200 • info@biohit.com • www.biohit.com



CHINA
Biohit Healthcare (Suzhou) Co., Ltd
Tel. +86-21-6248 5589
Fax: +86-21-6248 7786
E-mail: info.china@biohit.com

FRANCE
Biohit SAS
Tel: +33-1-3088 4130
Fax: +33-1-3088 4102
commercial.france@biohit.com

GERMANY
Biohit Deutschland GmbH
Tel: +49-6003-82 820
Fax: +49-6003-828 222
E-mail: info@biohit.de

JAPAN
Biohit Japan Co., Ltd.
Tel: +81-3-5822 0021
Fax: +81-3-5822 0022
sales@biohit.co.jp

RUSSIA
Biohit OOO
Tel. +7-812-327 5327
Fax: +7-812-327 5323
E-mail: main@biohit.ru

UK
Biohit Ltd.
Tel: +44-1803-315 900
Fax: +44-1803-315 530
sales@biohit.co.uk

USA
Biohit Inc.
Tel. +1-732-922 4900
Toll Free: 800-922 0784
Fax: +1-732-922 0557
E-mail: diagnostics.usa@biohit.com