



BornSafe™

NBS Lab

Microplate Reader

BornSafe™ NBS LAB Microplate reader is a microprocessor–controlled, general purpose photometer system designed to read and calculate the result of assays which are read in microtiter plate.

KEY FEATURES

- Open System
- Optical system: 8 independent photometric channel -Reads Fast & accurate within 5s*
- Data reduction options are available: Absorbance, Cut-Off, One point calibration, % ABS, Non linear regression, Linear regression, Log-Log regression, Power regression, Exponential regression, Percent Logarithm, Cubic equation Regression, Four parameter regression, Quadratic Regression.
- Strip Management system helps to Read Multiple assays in one plate**
- Programmable shaking facility available.
- Customized user defined templates facility available which provide flexibility to set Blank position, control position, sample position including various standard positions any place in Microplate manually.
- IMS*** options are available which helps to maintain internal department database, doctor database, reagent administration and work statistics, etc. in the system
- Q.C. solution with Westgard rules.
- Windows based Data Management Software which facilitates Storage of 100 program locations.
- Data Interface facility available with RS-232C serial interface. Multiple results reporting formats are available like Raw Absorbance, Cut-off, Limit, Concentration, Curve-fit result types etc.
-

TECHNICAL SPECIFICATIONS

Calculation mode	Absorbance, Cut-Off, One point calibration, % ABS, Non linear regression, Linear regression, Log-Log regression, Power regression, Exponential regression, Percent Logarithm, Cubic equation Regression, Four parameter regression, Quadratic Regression.
Report Types	Report by test, Report by program, Report by patient detail, Report by blood bank workstation.
Memory	Windows based Data Management Software which facilitates unlimited storage of results with of 100 program location.
Self- Test	Yes, check filter disk, plate transport, and lamp and PC connection.
Warm-up time	Upto 90 seconds

Reading speed:		
Continuous mode :	Single Dual	5 seconds 0 seconds
Step mode :	Single Dual	15 seconds 30 seconds
Mixing Capability		3- speed programmable
Programmable time		0-60 seconds
Compatible plates		Polystyrene flat U & V bottom plates & 8 or 12- well strip plate
Optics:		
Spectral range		400 – 700 nm
Photometric methods		Single & Dual
Filter capacity		8 interference filter, 5 Filter installed free & 3 Optional
Standard Filter		405,450,492, 550 & 630nm
Photo- detectors		8 silicon photodiode detectors for measurement
Light source		Tungsten Halogen,6V/20W
Technical:		
Measurement range		0.000 to 4.000
Linear Measurement range		0.000 to 2.000
Resolution		0.001 OD
Accuracy		±1.0% for 0.0-2.0 or ±0.007A
Precision		±0.5% for 0.0-2.0 or ±0.005A
Linearity		±2.0% or ± 0.007A
Software:		
Software Name		Management Software
Special Features		Dedicated Q.C Program with West-guard rule Sample ID with Alphanumeric Management
Information system		Yes
Database back-up		Yes
Printer/Interface/Display		External Printer, RS – 232 serial interface. Bi-directional communication, Windows based operating system.
Power Supply		110V-220V,50-60 Hz
Operating Conditions		Temperature: 0° C – 40°C, Humidity ≤ 85%
Dimensions		46 cms x 34 cms x 19 cms
Weight		7.5 kgs

LIST OF STANDARD ACCESSORIES SUPPLIED ALONG WITH THE INSTRUMENT

Components	Qty	Components	Qty
Power Cable	1 No.	RS-232 Cable	1 No.
USB to Serial Converter	1 No.	Fuses (3.15A)	2 Nos.
Software converter	1 No.	Dust Cover	1 No.
User Manual	1 No.		