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ZMR-100 AAB

MICROPLATE READER



Description

It is controlled by computer to complete Enzyme Linked Immunosorbent Assay (ELISA). Read 48 well and 98 well microplate, analyse and report, which are widely used in clinical diagnostic laboratories, centers for disease control and prevention, animal and plant quarantine, animal husbandry and veterinary epidemic prevention stations, biotechnological industries, food industries, environmental science, agricultural scientific research and other academic organisations.

Features

- Built-in computer, 8" touchscreen, edit, save, test, print efficiently and conveniently.
- 8 channels zero dispersion monochromatic optical fibre testing system, automatic well centre positioning.
- High-precision rail transmissions, enclosing optical system, test 96 wells in 3 seconds
- System self-check and diagnosis function for optical paths and mechanical parts.
- Lamp's automatic switch, energy-efficient design can extend the life of the light source and make it easy to change lamp.
- Shaking function, adjustable shaking speed and time.
- New Windows graphical user interface, operation system in English.
- Specimen information records: lists and cards, directly input specimen number, Patient Name, etc.
- Specimen no., OD value, result, S/CO value and item parameters can be shown in the same screen.
- Quick tagging blank, specimen, positive control, quality control, multi-valued comparison.
- Arrange 96 well microplate horizontally or longitudinally, set up, optionally the start bit and stop bit in testing, autocoding.
- Suitable for self contrast, rows and column subtraction, input judgement formula freely.
- Qualitative and quantitative parameters, the storeable standard curve can be used directly.
- Multi-item can be tested on one microplate (up to 12 item)
- Report according to microplate no. or specimen no., input experimental items and results in batches.
- Inquiry and statistic analysis can be done according to the specimen number and name, automatically track and analyse changing trends in data
- Test data can be saved in MS Excel for further analysis.

Light Source	6V, 10W tungsten halogen lamp, it can work over 5000 hours
Wavelength Range	400-750 nm
Optical Filters	4 standard filters: 405, 450, 492, 630 nm, maximum 8 filters
Measurement Methods	Single Wavelength, Dual Wavelength, two point method, dynamic assay, multiple wavelengths
Blank Ways	Single well blank, multiple wells blank, rows and columns blank
Calculation Method	Linear, Conic, Semi-log, In, Log-Log, Point-Point, Four_Parametric, Spline
Measurement Speed	Single Wavelength < 3 seconds/96 wells, dual wavelength < 9 seconds/96 wells
Measurement Range	0.0000-4.5000Abs
Resolution	0.0001A
Linearity	±0.5% or <0.025 A
Repeatability Difference	< 0.1% or ±0.0025A
Rows and Columns Difference	< 0.01 A
Display	Built-in XP system, 8" touch-screen, shows whole microplate results and calibration curve
Save Information	More than 300 test programs, results of 50 pieces of 96 well, 100000 test results
Interface	2 USB two-way communication interface, 1 RS232, 1 VGA, 1 LAN
Environment	Power Supply: 12V DC (100V Wide Input Voltage Range); Temperature: 5°C-40°C, Humidity: 10%-90%
External Dimension (cm)	52.5 × 42.0 × 26.0
Net Weight	9 kg