

VersaMax Microplate Reader

AN AFFORDABLE, TUNABLE MICROPLATE READER FOR 96-WELL FORMAT



- TUNABLE FOR FILTERLESS FLEXIBILITY
- EXCEPTIONAL PERFORMANCE
- AFFORDABLE
- WIDE APPLICATION BASE
- POWERFUL DATA ANALYSIS
- EASY VALIDATION AND TESTING

The VersaMax™ Microplate Reader from Molecular Devices bridges the gap between the affordability of filter-based readers and the flexibility of monochromator-based systems.

TUNABLE, FILTERLESS FLEXIBILITY

The VersaMax Reader uses a grating monochromator to select the wavelength, so the exact wavelength needed can be selected for every assay. With a wavelength range from 340 to 850 nm, this is equivalent to having 510 free filters.

EXCEPTIONAL PERFORMANCE

Using an advanced optical and electronic design, the VersaMax Reader gives the same high performance with round-bottom, flat-bottom or half-area well plates. Dual wavelength readings report the actual absorbance at each wavelength so data can be analyzed according to the user's preferences. Temperature control up to 45°C allows kinetic assays at ambient and physiological temperatures.

AFFORDABLE

The robot-compatible VersaMax Reader is cost-effective—users never have to buy filters. Furthermore, VersaMax is reliable, which means more uptime and lower long-term cost of ownership.

WIDE RANGE OF APPLICATIONS

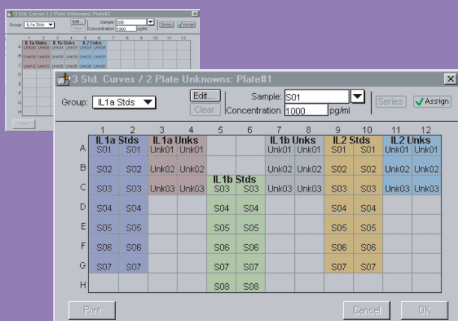
The VersaMax reader covers a wide range of applications:

- Microbial Growth/MIC
- IC₅₀/LD₅₀
- Endpoint ELISAs/EIA
- Cytoproliferation/Cytotoxicity
- Colorimetric Protein
- Kinetic ELISAs/Enzyme Assays
- Bacterial Identification

POWERFUL DATA ANALYSIS

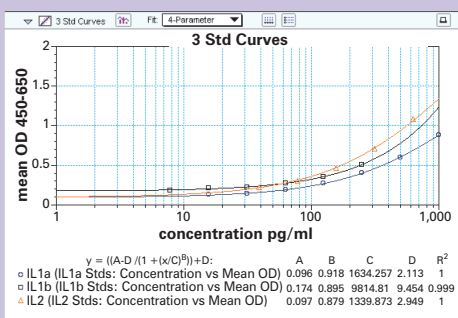
SoftMax® Pro, Software Molecular Devices' industry-leading data analysis and instrument control software, is included with VersaMax

flexible template assignment (figure 1)



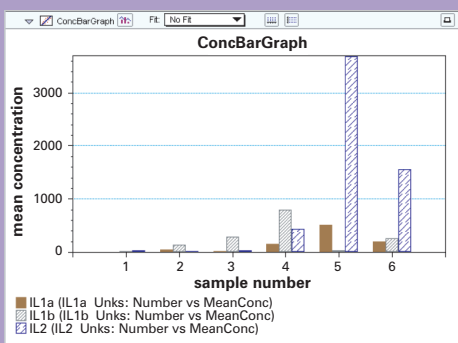
Standards for multiple calibration curves and unknowns can be run on separate plates.

multiple calibration curves (figure 2)



Multiple calibration curves can be plotted on one graph.

combined data graphing (figure 3)



Results from unknowns run on different plates and different calibration curves can be plotted on one graph.

Systems and provides additional flexibility for the user. SoftMax Pro Software can handle analysis requirements from simple endpoint assays to complex kinetic assays requiring custom calculations. The software is both Windows- and Macintosh-compatible and meets the needs of both basic and power users. Choose from nine different curve-fitting routines and use default data reduction, or set up custom formulas for analysis. Data can be analyzed and combined from different plates. (See Figures 1, 2 and 3.)

VALIDATION MADE EASY

The SpectraTest® Validation Package tests optical performance using NIST-traceable standards. Testing can be done in the user's lab on their own schedule. Software validation, FDA 21 CFR Part 11 compliance tools and IQ/OQ/PQ tools are also available.

TECHNICAL SPECIFICATIONS

Photometric Performance

- Wavelength range: 340–850 nm
- Wavelength selection: Monochromator, tunable in 1.0 nm increments
- Wavelength bandwidth: 2 nm
- Wavelength accuracy: < ±2.0 nm
- Photometric range: 0–4.000 OD
- Photometric linearity: (405 nm) 0–3.000 OD
- Photometric accuracy (340–850 nm): < ±0.006 OD ±1.0%, 0–2.0 OD
- Photometric precision (340–850 nm): < ±0.003 OD ±1.0%, 0–2.0 OD

Microplate read times:

- Endpoint: 12 seconds
- Kinetics: 9 second min. interval

Temperature Regulation

- Temperature range: Ambient +4°C to 45°C
- Temperature uniformity (microplate): ±0.5°C at 37°C, well-to-well

General Specifications

- Dimensions (in.): 8.6 (L) x 22.8 (W) x 15 (H)
- Dimensions (cm): 22 (L) x 58 (W) x 38 (H)
- Weight: 30 lbs. (13.6 kg)
- Power consumption: < 250 watts
- Power source: 100–240 VAC, 4 A 50/60 Hz

Robot compatible: Yes

ORDERING INFORMATION

Contact your Molecular Devices sales representative for configuration options.

SALES OFFICES

- USA & Canada +1-800-635-5577
- Brazil +55-11-3616-6607
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Check our web site for a current listing of our worldwide distributors.

www.moleculardevices.com

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