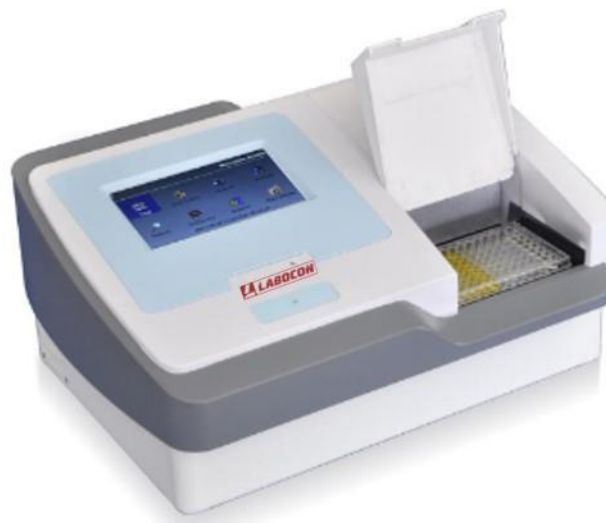




Labocon Microplate Reader-Advanced
Model: LMPRA-101
& LMPRA-102



Labocon Microplate Reader Advanced LMPRA-100 Series

Labocon Microplate Reader advanced range LMPRA-100 Series features 96 well multimode and bi-chromatic multi-channel optical system. Different detection modes like comprehensive qualitative and quantitative data-evaluation functions with cut-offs, curve-fits and transformation formulas are available. It is a basic tool in drug discovery and life science research, bioassay testing and quality control pharmaceutical processes.

Features:

- Graphical operating interface, menu designed for convenient use
- High brightness and large size LCD touch screen display
- Flexible plate layout with Blanks, Standards, Samples, Reference, QC in one screen
- Single and dual wavelength measurements, comprehensive qualitative and quantitative data-evaluation functions with cut-offs, End Point, Two Point, Kinetics, curve-fits and transformation formulas
- 8 channel optical fiber scanning, auto plate centering system positions the center of the cell accurately
- Performing 12 different tests just in one plate
- Auto lamp adjustment and auto calibration, improve the efficiency of the system and reduce the cost
- Optional external PS2 mouse action and standard keyboard
- Easy connect to PC, comprehensive functions with found workstation PC software
- Optional: With USB and RS-232 interface and inbuilt and external printer interface
- Multi-forms in result output including patient comprehensive report

Specifications:

Model No.	LMPRA-101	LMPRA-102
Plate Type	96-well plate (U, V or flat bottom plate)	96-well plate (U, V or flat bottom plate)
Wavelength Range	400-800nm	400-850nm
Indication Range	0.000-4.000 OD	0.000-4.000 OD
Filter Wavelength	Standard Filter : 405, 450, 492,630nm & Filter wheel for up to 8 additional filters as per requirement	Standard Filter 405, 450, 492, 630nm & Filter wheel for up to 8 additional filters as per requirement
Wavelength Accuracy	$\pm 0.008A$	$\pm 0.008A$
Wavelength Precision	$\pm 0.03A$	$\pm 0.03A$
Wavelength Resolution	0.001 OD	0.001 Abs
Wavelength Linearity	$\pm 1\%$ from 0.0 to 4.0Abs	$\pm 1\%$ from 0.0 to 4.0Abs
Wavelength Reproducibility	$\pm 1.0\%$ at 1.0 OD, 450 nm	$\leq 0.2\%$
Wavelength Stability	$< 0.003A$	$< 0.003A$
Spectral Bandwidth	10nm	10nm
Reading Speed	$< 5s$ for single wavelength, $< 6s$ for double wavelength	$\leq 5s$ for single wavelength, $\leq 6s$ for double wavelength
Measurement Range Reading Range	0.000-4.000 Abs	0.000-4.000 Abs
Measurement System	8 Channel Optical System	8 Channel Optical System
Measurement Speed	5-10 sec for 96 well plate	5-10 sec for 96 well plate
Photometric Range	0.000-4.000 Abs	0.000-4.000 Abs
Photometric Accuracy	$\pm 1.0\%$ at 1.0 OD, 450 nm	$\pm 1.0\%$ at 1.0 OD, 450 nm
Photometric Repeatability	$< 1\%$	$< 1\%$
Temp. Incubation Range	Ambient -55 °C	Ambient -55 °C
Shaking	Linear Shaking (3 speed)	Linear Shaking (3 speed)
Display	320 X 240 LCD	320 X 240 LCD
Light Source	Controlled tungsten halogen lamp	Controlled tungsten halogen lamp
Detection Method	Absorbance	Absorbance

Detector	Silicone Photodiode-10 Nos.	Silicone Photodiode-10 Nos.
Detection Modes Programs	Comprehensive Qualitative and Quantitative Data-Evaluation with Cut-Offs, End Point, Two Point, Kinetics ,Curve-Fits and Transformation Formulas	Comprehensive Qualitative and Quantitative Data-Evaluation with Cut-Offs, End Point, Two Point, Kinetics ,Curve-Fits and Transformation Formulas
Printer	Built-in thermal printer, optional external printer	Built-in thermal printer, optional external printer
Interface Connections	USB, Serial RS-230	2X USB, 1X RS-230, PS2 mouse keyboard
Power	80 W	80 W
Power Supply	100-240V, 50/60Hz	100-240V, 50/60Hz
Dimensions	460 X 350 X 197 mm	460 X 350 X 197 mm
Weight (Net/Gross)	10 Kg	10 Kg

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