



MP-3020 MICROPLATE SPECTROPHOTOMETER

DETAILS

MP-3020 is a compact microplate spectrophotometer that combines modern touchscreen technology with excellent performance for UV-Vis measurements in 6- to 384-well microplates, cuvettes and in micro-volume samples with the available plate. No need to worry about limited onboard software, since MP-3020 comes with full function software, ready to read and analyze data at the touch of a few buttons! For maximum versatility, MP-3020 can read from 200 nm to 1000 nm in 1 nm increments for single, dual and multi-wavelength measurements in end point and kinetic read methods.

Spectral scanning and well area scanning add to the system's wide-ranging application capabilities. (carrying out DNA/RNA purity & concentration check) For cell-based and other temperature sensitive assays, MP-3020's 4-Zone incubation to 65 °C reaches an even broader range of applications. A variety of data output options are available, including WiFi, Bluetooth and a USB flash drive, making MP-3020 a fully contained microplate spectrophotometer workstation.

FEATURES

- » UV-Vis wavelength selection in 2-10 μ L micro-volume samples, 6-to 384-well plates and standard cuvettes
- » Large color touchscreen with available WiFi, Bluetooth and flash drive connectivity
- » Instrument can read the absorbance values for 16 samples loaded on a drop plate
- » Full data analysis onboard, with Windows[®] 8 OS
- » Advanced incubator design to 65 °C and new anti-condensation mode
- » Advanced shaking profiles including linear, orbital and double orbital

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Analytical Technologies Limited

An ISO 9001 Certified Company

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SPECIFICATION

| | |
|-----------------------|--|
| Detection modes | UV Absorbance |
| Read methods | Endpoint, kinetic, spectral scanning, well area scanning |
| Microplate types | 6- to 384-well plates |
| Temperature control | 4-Zone™ incubation to 65 °C with Condensation Control + 0.2 °C at 45 °C |
| Shaking | Linear, orbital, double orbital |
| Software | Analytical Technologies Data Analysis Software and under Gen5 control, with unlimited installation user license Secure for 21 CFR Part 11 compliance (optional) |
| Wavelength selection: | Monochromator |
| Wavelength range: | 200 - 1000 nm, selectable in 1 nm increments |
| Light source: | Xenon flash lamp |
| Dynamic range: | 0.0 - 4.0 OD |
| Automation: | BioStack and 3rd party automation BioSpa 8 Automated Incubator |
| Detector: | Photodiode |

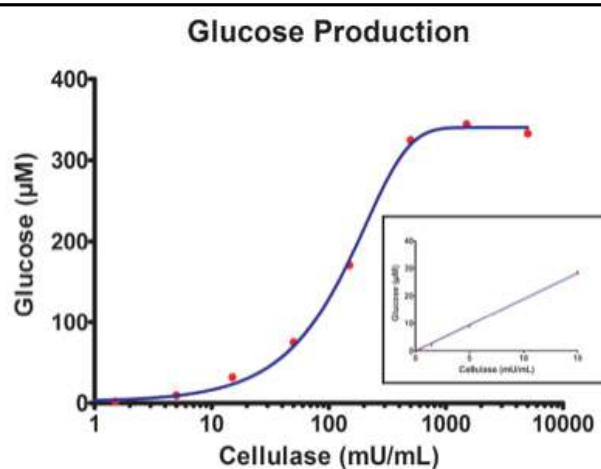
PERFORMANCE

| | |
|--|---|
| Performance noted below is for 96-well microplates and cuvette measurements. | |
| Monochromator | Band Width: 2.9 nm wavelength repeatability: ± 0.2 nm wavelength accuracy: ± 2 nm |
| Resolution: | 0.001 OD (onboard software) 0.0001 OD (under Gen5 control) |
| Path length correction: | under Gen5 Control |
| OD linearity: | <1% from 0 to 2.5 OD |
| OD accuracy: | <1% from 0 to 2.5 OD |
| OD repeatability: | <0.5% at 2.0 OD |
| Stray light: | 0.03% at 230 nm |
| Read speed: | 96 wells sweep read: 8 seconds 384 wells sweep read: 14 seconds |

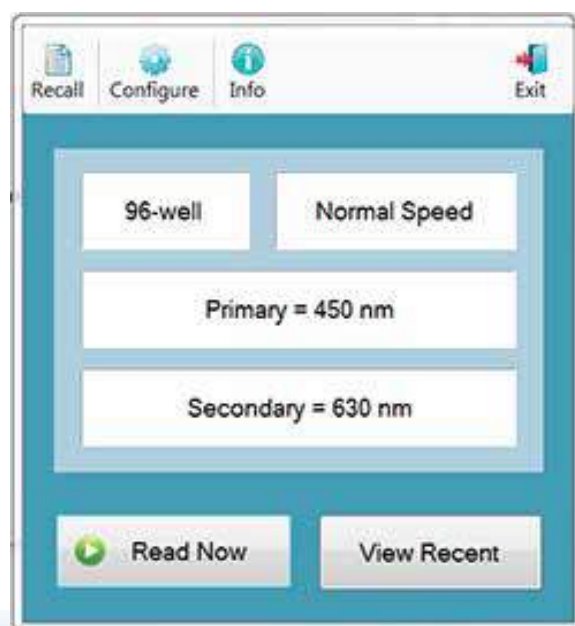
PHYSICAL CHARACTERISTICS

| | |
|---------------|---|
| Connectivity: | 1 USB for external PC control 1 USB for peripheral devices |
| Power: | 100 - 240 Volts AC 50/60 Hz |
| Dimensions: | Touchscreen configuration: 15.5" D x 12.5" W x 13" H (39.3 x 32 x 33 cm) Non-touchscreen configuration: 15.5" D x 12.5" W x 8" H (39.3 x 32 x 20.3 cm) |
| Weight: | Touchscreen configuration: 25 lbs (11.3 kg) Non-touchscreen configuration: 20 lbs (9.1 kg) |

Applications



- » Nucleic acid and protein direct quantification
- » Micro-volume assays
- » Biofuel research applications
- » Cytotoxicity assay
- » Cell proliferation assay
- » End point or kinetic ELISA
- » Spectral scanning



Regulatory compliances



Corporate Social Responsibility

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Foundation

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @



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