

Nebula[®] Multimode Reader



One reader. Two detection methods.

The Nebula[®] Multimode Reader brings absorbance and fluorescence technology together in one easy-to-use instrument. This 96-well microplate reader allows users to utilize traditional LAL assays and recombinant Factor C technology such as the PYROGENT[®] 5000 Kinetic Turbidimetric Assay, the Kinetic-QCL[®] Kinetic Chromogenic Assay, and the PyroGene[®] rFC Assay. The Nebula[®] Multimode Reader is optimized for all of Lonza's quantitative endotoxin detection assays, bringing new and improved technology to the laboratory.

Product overview

The Nebula[®] Multimode Reader is a part of the quantitative endotoxin detection system that supports both absorbance and fluorescent based endotoxin detection assays. Optimized specifically for Lonza's quantitative endotoxin detection assays, this reader has an excitation monochromator optimized for wavelength accuracy and precision, ensuring excellent performance for every absorbance and fluorescence assay. By combining two detection methods in one reader, the reader footprint is reduced, mainte-

nance is simplified, and laboratory efficiency is increased. Controlled by Lonza's WinKQCL[®] Endotoxin and Analysis Software, version 6.3 and higher, Lonza delivers a high-performance and easy-to-use system for users interested in multiple endotoxin detection assays.

On-site service and preventative maintenance contracts help ensure that your instrument is working properly. Lonza's expertly trained service professionals will provide installation, qualification and preventative maintenance to keep your reader qualified and functional.

Technical specifications

Item	Description
Read capabilities	Absorbance (monochromator), Fluorescence (monochromator)
Read position	Top/bottom read
Light source	Xenon Flash
Detection	Silicon photodiode (Absorbance) or PMT (Fluorescence)
Wavelength range	230 – 1000nm (Absorbance), 230 – 850nm (Fluorescence)
Temperature control	5° C above ambient to 42° C
Power	Auto-sensing 100 – 120 V/220 – 240 V, 50 – 60 Hz
Dimensions	42.5 cm W x 45.7 cm D x 25.3 cm H (16.73" W x 17.99" D x 9.96"H)
Weight	15.8 kg (34.8 lbs.)
Absorbance	
The following specifications are valid for the wavelength range from 300 – 700 nm	
Plate type (number of wells)	96 Accuracy 0 – 2 OD: $\pm (1\% + 10 \text{ mOD})$ Accuracy 2 – 3 OD: $\pm 2.5\%$
Baseline Flatness	$\pm 10 \text{ mOD}$ (1 sigma)
Wavelength Accuracy	$\leq \pm 1.5 \text{ nm } \lambda > 315 \text{ nm}; \leq \pm 0.8 \text{ nm } \lambda \leq 315 \text{ nm}$

Benefits

- Flexibility of absorbance and fluorescence applications
- Reduced reader footprint
- Monochromator-based wavelength selection
- Reduced reader maintenance
- High performance optics
- Streamlined training and validation requirements due to WinKQCL® Software integration.

Applications

- Parenterals
- Biologics
- Medical devices
- Dialysis
- Compounding
- Water analysis
- R&D

Ordering information:

Part code (US)	Part code (EU)	Product	Description
25-375S	25-375S	Nebula® Multimode Reader	Incubating absorbance/fluorescence reader
30053037	30053037	Nebula® Multicheck Test Plate	For alignment, repeatability, and accuracy validation (optional)
30225201	30225201	Nebula® Tray Insert	Insert for optimized performance

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