

Rapid Microbial Detection and Growth Assay



GreenLight[®]

The logo for mocon, featuring a red semi-circular arc above the word "mocon" in a bold, black, sans-serif font.

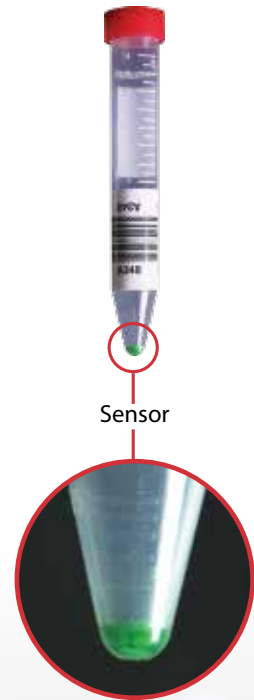
The ideal tool for growth assessment

The GreenLight® Sensor

As aerobic microbial samples grow and respire, they deplete oxygen. The groundbreaking GreenLight sensing system employs a unique oxygen sensor with high sensitivity. GreenLight works by optical fluorescence. When the sensor is excited by light from the dedicated reader, it returns optical information that can be related to microbial load. This allows continued assessment of growth within a sample.

Benefits of GreenLight

- Reduced test times
- Detection down to one viable microbial cell
- Eliminates serial dilution of samples due to its wide measurement range
- Reduced material and labor costs for sample preparation
- Reduced preparation errors caused by weighing, dilution and pipetting
- Provides a robust test for a variety of sample matrices
- Impervious to sample opacity or turbidity
- Easy disposal of samples compared to agar plates and similar products
- Simple storage of vials at room temperature

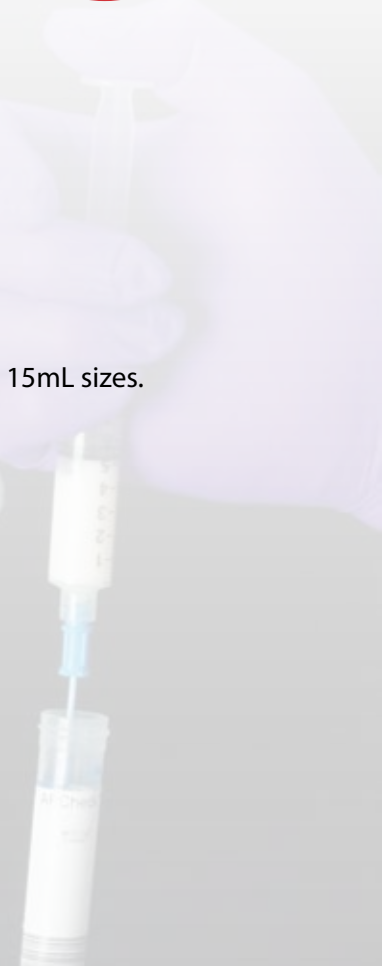


The GreenLight APCheck™ Vial

APCheck vials contain the integral GreenLight oxygen sensor. Vials are available in 2mL and 15mL sizes.

Benefits of APCheck Vial

- Provides unique sample identification with the attached, unique bar code
- The vial can be used for different assays by varying the preparation media
- Actual sampled volume is larger than standard agar plate techniques
- The 2mL vial allows maximum test throughput on GreenLight readers
- The 15mL vial allows maximum detection sensitivity
- Vials are stable for more than one year, even when filled with liquid media



Automated, flexible, and easy-to-use

GreenLight Series Readers

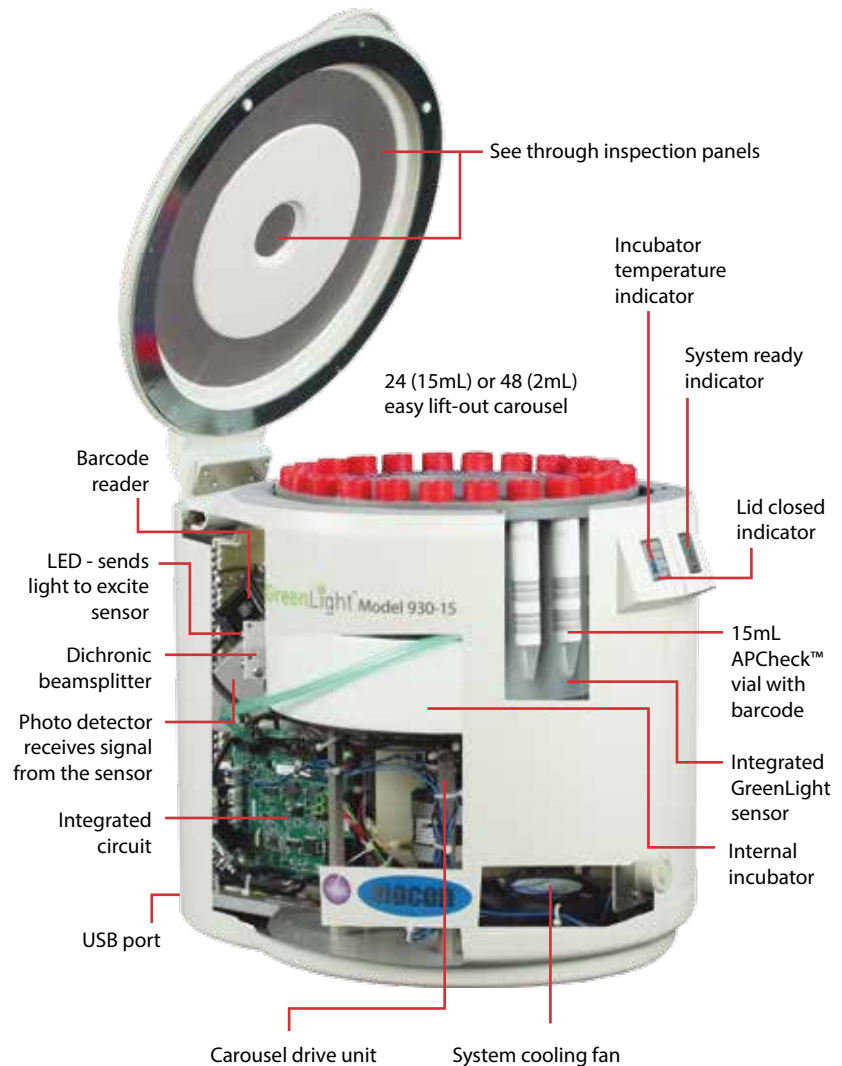
GreenLight systems offer high throughput to satisfy both R&D and QA users. The GreenLight model 930 is available for either the 2mL or 15mL vial sizes with up to 48 continual test capacity.

Model 930 Benefits

- Flexible loading and unloading to suit the preparation workload
- Traceability of tests using the integral bar code reader and removable carousel
- Operating modes allow internally and externally incubated samples
- Space conscious design and low power consumption
- Low maintenance costs driven by sealed optical design

GreenLight Software Benefits

- 21CFR part 11 compliance
- Intuitive methods screens for assay development
- Easy-to-read dashboard with tabular, graphic, and pass/fail status indicators
- Unattended operation with secure results databases
- Added flexibility with independent test start/stop times
- Compatibility across MS Windows® platforms
- LIMS functionality



MOCON also offers the compact GreenLight model 910 using the same APCheck vials. The model 910 is a single well reader with external incubation capability.

Estimated Time to Result

CFU/g	10 ⁸	10 ⁷	10 ⁶	10 ⁵	10 ⁴	10 ²	10 ¹
Time (in hours)	<1	<3	<5	<9	<11	<13	<15

APCheck Vials

Volume	2.0mL	15.0mL
Pack contents	24	24 or 50
Detection range (nominal)	1 cell to 10 ⁸ cells	1 cell to 10 ⁸ cells
Lower limit of quantification*	<15 CFU/vial**	<15 CFU/vial**
Shelf life	12 months	12 months
Storage temperature	3 to 40C	3 to 40C
Disposal	similar to agar plates	similar to agar plates

*may vary due to sample matrix

**CFU = Colony Forming Units

GreenLight Reader

Model	930	910
Type	2mL or 15mL options	2mL and 15mL with optional adapter
Capacity	24 or 48 tests	1 test
Throughput	Up to 432 tests in Pass/Fail mode	Up to 24 tests in Pass/Fail mode
Incubation (internal)	Ambient +2C to 40C	Ambient +2C to 40C
Custom Software compatibility	MS Windows® 7 Home Premium or later	MS Windows® 7 Home Premium or later
Power (adapter supplied)	100-240VAC, 50-60Hz, Output 72W max.	100-240VAC, 50-60Hz, Output 72W max.
USB ports	1X USB peripheral port 1X external Bar Code Reader port	1X USB peripheral port 1X external Bar Code Reader port
Operating Temperature	15C to 35C	15C to 35C
Relative Humidity	0-95% non-condensing	0-95% non-condensing
Dimensions (W x D x H)	30.5 x 31.8 x 38.1 cm	7.6 x 20.3 x 25.4 cm
Weight	12.30 kg	2.27 kg

Accessories

	Laptop computer (pre-loaded with GreenLight software)	Laptop computer (pre-loaded with GreenLight software)
	Extra carousel (24 or 48 places)	External dry block heater
	External Bar Code Reader	15mL vial adapter

MOCON® Commitment

These analytical instruments are another example of MOCON's long-standing commitment to innovation and quality in the support of our customers.

Technical Support & Service

MOCON offers a variety of technical services designed to provide you with first class support. Whether you require technical support, next-day spare parts delivery, on-site training, N.I.S.T. certification or "turn-key" validation, our staff can tailor a service program to fit your needs. Our goal is to provide the best in product support services.

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MOCON reserves the right to change specifications without notice as part of our continuous program of product improvement.



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