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2024 Buyer's Guide

Empowering Your Microbiome Research

Meet the 2023 winners of Cerillo's Co-Culture Champion Contest at Cerillo.bio

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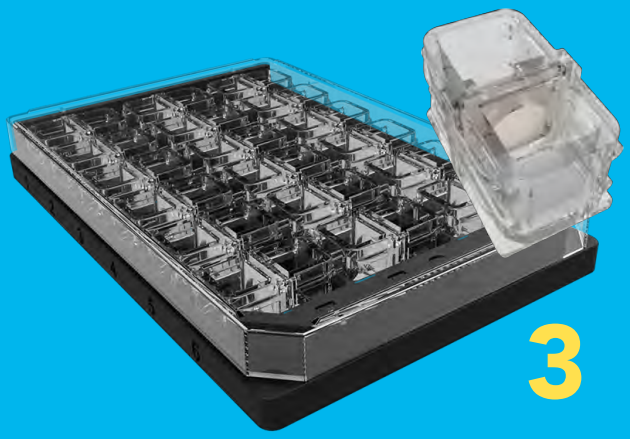
Our Research Platform

1 - Our go-anywhere microplate readers are compact and portable, allowing researchers to perform a variety of assays and measurements even in small spaces like shared modular benchtops, incubators, and anaerobic chambers.

2 - Our wireless data collection and analytics platform enables researchers to study the growth curve of microorganisms like bacteria, yeast, and fungi in real-time.

3 - Our off-the-shelf, scalable Co-Culture Duet System is designed for real-time phenotypic measurements of the microbiome enabling researchers to conduct microbial interaction studies between microorganisms with ease.



- **Modular & configurable**
- **Semipermeable membrane divider**
- **Measurable in standard plate readers**

cerillo Alto

Microplate Reader

Features

- Flexible calibration and experiment modes
- Capable of endpoint readings or continuous real-time measurements of optical density at user determined time intervals
- Fits 6, 12, and 96-well plates, as well as the cerillo co-culture duet plate
- Small footprint and stackable
- Available at 600nm, 450nm and custom-ized wavelengths

- Offers flexible measurement modes for a wide range of experiments
- Ideal size for compact spaces (e.g., shared benches, incubators, chambers)
- Operates in challenging environments where others can't
- Streamlined standalone interface with onboard data storage
- User-friendly software for quick data analysis and meaningful results

Available Products

Alto, 600nm	ALT -1600
Alto 450nm	ALT-1450

The Alto micropolate reader's powerful optical system provides flexible calibration modes, accommodating a wide array of experiments including ELISA and microbial growth curves with diverse starting points.

To learn more about Cerillo and our products, visit us at www.cerillo.bio or by email at info@cerillo.bio

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Alto Technical Specifications

All Cerillo products are for research use only and are not intended for use in diagnostic procedures.

General

Measurement Mode	▸ Absorbance
Detection Mode	▸ Kinetic, Endpoint
Plate Types	▸ 6, 12, and 96-well plates, Cerillo Co-Culture Duet plate
Dimensions	▸ W: 15.0 cm D: 13.3 cm H: 7.2 cm
Weight	▸ 800 g
Power Input	▸ 5 V, 500 mA via USB-C receptacle

Measurement

Environmental Tolerance	▸ Temp: 0-50° C, Humidity: 0-99%, ▸ O_2 Concentration: 0-21%, CO_2 Concentration: 0-25%
Wavelength	▸ Single Wavelength: 600 nm, 450 nm
Light Source	▸ Monochromatic LEDs
Resolution	▸ 0.001 OD
Detection Range	▸ 0.000 - 4.000 OD
Linearity	▸ < ±1% (0.000 - 2.500 OD)
Accuracy	▸ Endpoint: < ±1% and ±0.02 OD (0.000 - 2.500 OD) ▸ Kinetic: < ±0.25% and ±0.005 OD (0.000 - 2.500 OD)
Repeatability	▸ < ±0.25% and ±0.005 OD (0.000 - 2.500 OD)
Data Storage	▸ "microSD; up to 32 GB (16 GB card provided)

Software

Operating System	▸ macOS: 11 (Big Sur), 12 (Monterey); Windows: 10, 11
Data Export Format	▸ .csv (on-board), .xlsx (some Labrador exports)

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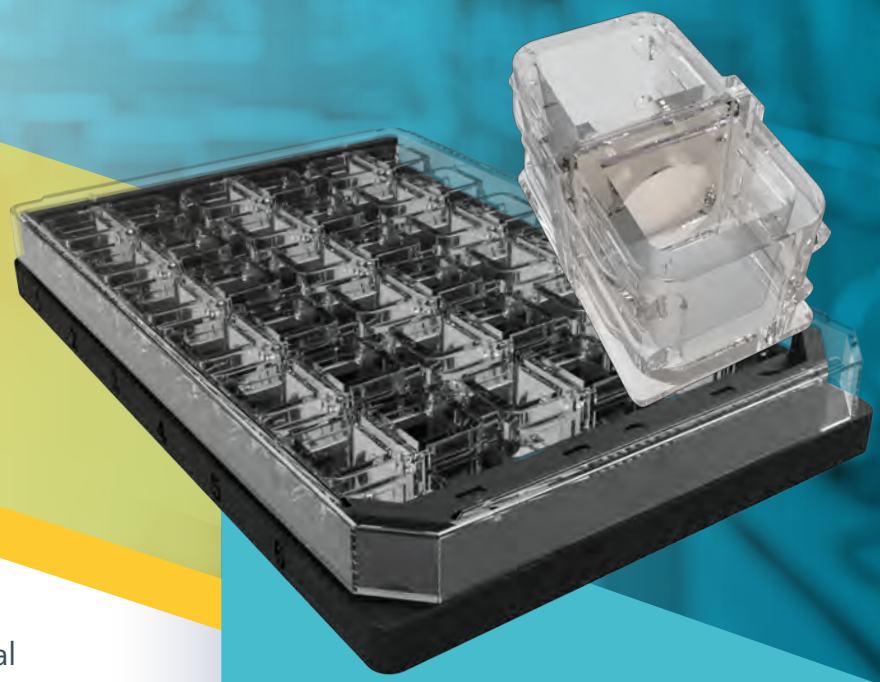
Co-Culture Duet System



Features

- Observe and study individual microbial populations in real-time
- Measure the growth of one microbial population alongside other populations
- Porous barrier physically isolates populations while maintaining fluidic contact
- Multiplexed plate accommodates 18 duets
- Physically accessible wells enable population sampling during and after experiment
- Compatible with other automation systems giving you the freedom and flexibility to run additional assays on different platforms

- Easily run comprehensive microbial interaction studies
- Save valuable time and resources with this ready-to-use, off-the-shelf solution
- Compare experiments and facilitate collaborations with standardized system
- Improved collaboration through standardized co-culture set-up and analysis platform

With the Co-Culture Duet System, you can expand your lab capabilities while improving accessibility, standardization and scalability in your microbial interaction studies

Available Products

Co-Culture Duet System	CCU-1000

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Co-Culture Duet System Technical Specifications

Cerillo's Co-Culture Duet System enables researchers to observe and study individual microbial populations and measure the growth of one microbial population alongside other populations.

General

Compatible Products	▸ Stratus, Alto and other standard plate readers that can accept a 1.52 cm tall microplate (~1.75 cm with a lid)
Capacity	▸ Up to 18 duets
Duet	▸ 2 reservoirs, 1 membrane
Dimensions	▸ Frame (with duets): 12.78 x 8.54 x 1.52 cm (LWH) ▸ Reservoir internal: 0.8 x 0.9 x 1.2 cm (LWH) ▸ Duet: 2.4 x 1.5 x 1.4 cm (LWH)
Weight	▸ Frame: 89 g
Duets	▸ 3 g each
Reservoir volume	▸ 800-1000 µL

Membrane

Material	▸ Polycarbonate
Treatment	▸ PVP (hydrophilic)
Pore Size	▸ 0.2 µm
Surface Area	▸ 0.503 cm2
Diameter	▸ 0.8 cm
Membrane Thickness	▸ 25 µm

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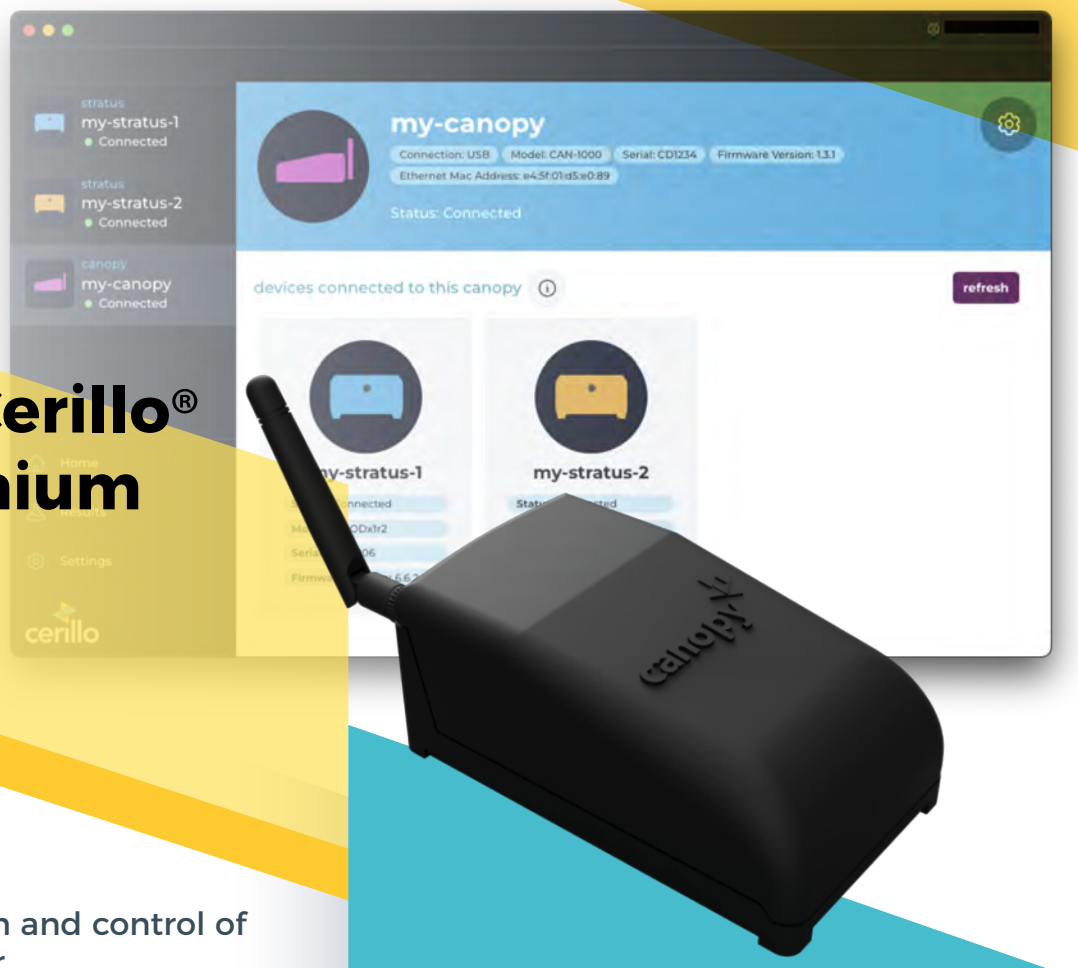
Canopy with Cerillo® Labrador Premium

Wireless Accessory Package



Features

- Wireless data transmission and control of Cerillo's microplate reader
- Real-time monitoring of readings within 15 meters of cerillo devices
- Modern, responsive user interface
- Small and portable
- Wirelessly connect up to five Cerillo devices to one computer
- Access for up to five unique users of the Cerillo Labrador Premium Software

Wireless Accessory Package Includes

Canopy	CAN-1000
Cerillo Labrador Premium Software Subscription	one-year license

- Complete your experiments effortlessly with new wireless capabilities
- Optimize the productivity and efficiency of your lab work
- Access unique capabilities in a range of life science disciplines

This wireless accessory package perfectly complements Cerillo devices, expanding capabilities to further optimize research activities

To learn more about cerillo and our products, visit us at www.cerillo.bio or email us at info@cerillo.bio

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Canopy Technical Specifications

The canopy is RoHS, REACH and FCC compliant, CE certified, made in the USA, and has a two-year warranty.

General

Compatible Products	▸ Stratus and Alto Microplate Readers
Dimensions	▸ 11.32 X 6.61 X 4.78 cm (LWH)
Weight	▸ 170 g
Power Input	▸ 5.1 V, 1 A via USB-C receptacle

Communication

Wireless Protocol	▸ IEEE 802.15.4
Wireless Range	▸ 15 m

Cerillo Labrador Premium Software

Operating System	▸ macOS: 11 (Big Sur), 12 (Monterey); Windows: 10, 11

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