



Lucy2 / Lucy3

Microplate Luminometer

Anthos Lucy 2 and Lucy 3 are dual mode readers with focus on luminescence and absorbance. The photon counting detection system sets landmarks for highest sensitivity and dynamic range. Two fast reagent injectors open the wide application range of all flash- and glow-type luminescence assays.

Lucy 2 operates remote controlled by PC with ADAP Software. Lucy 3 features in addition onboard PC, display and keyboard for stand alone function with comprehensive evaluation software.

6 configurations available:

- ⇒ Lucy2 Basic Instrument
- ⇒ Lucy2 Single Dispenser
- ⇒ Lucy2 Twin Dispenser

- ⇒ Lucy3 Basic Instrument
- ⇒ Lucy3 Single Dispenser
- ⇒ Lucy3 Twin Dispenser

Key Features

- Flash Kinetic Luminescence
- Glow Kinetic Luminescence
- Fast Flash Kinetic Mode (intervals in the Microsecond range)
- Absorbance
- Spectral Sensitivity Range from 300 to 700nm
- Capacity for 15 filters – gives highest flexibility when switching from luminescent ELISA (LIA) to absorbance ELISA.
- Programmable shaking
- ADAP Basic Software for user administration, kinetic data reduction and flexible data management and data storage.
- Dispensers (optional)
 - High Precision FMI Pumps
 - Volume 50µl - 300µl in 50µl increments
 - Metal free, exchangeable tubing

Operational Areas

- Life Science Labs
- Forensic Labs
(quantitation of human DNA in presence of foreign DNA, Genetic Identity Testing)
- Routine Labs

Additional Features for Stand Alone

- Onboard Software:
 - Flexible Plate Layout with Blanks, Standards, Controls
 - Comprehensive quantitative and qualitative data-evaluation with curve-fits, cut-offs and transformation formulas
 - Multiple kinetic data reduction modes, combined with further quantitative/ qualitative evaluation
 - Variables, test-validation, automatic replicate elimination
 - Integrated Dispenser programming with security features (volume control, prime control)
 - Language Selection
- Interface and data storage:
 - Large Color Graphic Display
 - 5.5 MB onboard Data Memory
 - Evaluated Data export with ADAP Software

Main Applications

- Luminometric reporter gene assays (Dual Luciferase)
- Colorimetric reporter assays (405nm-690nm)
- LIA/ ELISA
- Nucleic acid quantification
- Aequorin Ca⁺⁺ assays
- Ion channels / GPCR's
- Two-Hybrid / Protein – protein interaction
- Apoptosis / Cell viability / Cell cytotoxicity
- ATP determination
- Enzyme kinetics
- Reactive oxygen species (ROS)

Lucy2 / Lucy3 - Technical Data

Anthos Luminometer	Lucy2	Lucy3
Detection System: Photon Counting PMT	✓	✓
Spectral Sensitivity Range: 300 - 650nm	✓	✓
Luminescence Sensitivity at 545nm: 0.2fW, 50 amol ATP (typical)	✓	✓
Luminescence Indication Range: 0.001 to 99.999 RLU (kcounts/ s)	✓	✓
Photometric Method: Single Channel, well-center-triggered reading	✓	✓
Photometric Wavelength Range: 405 - 650nm	✓	✓
Resolution-Photometric: 0.001 OD	✓	✓
Absorbance Range: 0.000 - 4.499 OD	✓	✓
Accuracy-Photometric: <±1.5% at 1 OD	✓	✓
Linearity: <±1% and ±0.005 OD from 0.1 OD to 3 OD	✓	✓
Reproducibility: <±1% at 1 OD	✓	✓
Power Supply: Voltage Range: 90 - 130 and 180 - 250V (autosensing) Frequency range: 47 - 63Hz (autosensing)	✓ ✓	✓ ✓
Shaking: 3 speeds	✓	✓
Data Connections: Serial Interface: 9-pin, (RS232) Parallel Printer Interface: 25-pin	✓	✓ ✓
Standard Filters: 4 Photometric Filters (405, 450, 492, 620nm) 1 High Pass Filter (570nm)	✓ ✓	✓ ✓
Additional Filters: on request, filterwheel for up to 15 filters	✓	✓
Display: 25x42 characters color graphics (640x480 pixel)		✓
Keyboard: Numeric keypad, cursors and function keys		✓
Printer: DOS compatible Inkjet, Laser and Matrix printer with parallel interface		✓
Standard Software: ADAP Basic	✓	✓
Onboard Software:		✓
Dimensions/ Weight: 34.5cm x 25.5cm x 46.5cm (W x H x L)/ 10.6kg net (incl. twin dispenser) 34.5cm x 25.5cm x 46.5cm (W x H x L)/ 11.8kg net (incl. twin dispenser)	✓	✓
Scope of Supply: 5 Standardfilters, Dustcover, Spare Fuses, Power Cable, Serial Cable Standard Software and User Manual on CD Onboard Software	✓ ✓	✓ ✓ ✓
Options: Dispensers additional Software ADAP Plus (including ADAP Basic) additional Software ADAP Expert (including ADAP Plus)	✓ ✓ ✓	✓ ✓ ✓

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