

Incucyte<sup>®</sup> Empower Live-Cell Analysis Inside Your Incubator

### Simplifying Progress



## Innovation Never Takes a Break

Analyze your cells for days, weeks or even months as they sit stationary in the stable environment of your tissue culture incubator. With Incucyte's user-friendly interface and robust instrument portfolio, any cell biologist can gain dynamic insights into the health, morphology, movement and function of their cell models.



#### Ask new questions

- Explore both routine and complex questions with a single flexible platform
- Devise new experiments with up to five live-cell fluorescence channels plus HD phase imaging.



### **Protect Your Cells**

- Leave cells undisturbed and stationary in the incubator during analysis.
- Maintain cell health and reduce artifacts with specially-formulated live-cell reagents or label-free assays.





### **Get New Answers**

- Never miss a data point with real-time continuous analysis.
- Profile cell type-specific and time-dependent biological activity.



### Improve Productivity

- Accommodate multiple users and applications in up to six microplates in parallel.
- View experiments live from any networked PC, with unlimited user licenses.



## Insight and Accuracy at Every Step

Whether you simply want to improve experimental outcomes with enhanced cell culture quality control, or study complex cell-cell interactions, the Incucyte can meet your needs. Seamlessly transition from one step in your workflow to the next with interchangeable trays to support tissue culture flasks, dishes, or multi-well plates.



## Endpoint **Real-time** 1000 e de la Multiple time points

Comparison of typical cell workflows using traditional end-point and real-time cell analysis methods. With real-time analysis, observations and measurements are generated throughout the cell culture workflow, in addition to the phenotypic parameters in the assay.

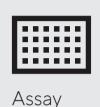


- Visualize cell morphology.
- Automatically quantify confluence.
- Verify monoclonality via limiting dilution.



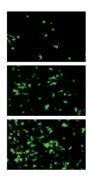


Manipulate





Single time point

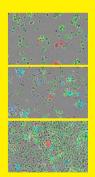


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Multiple time points

### Ensure high-quality downstream analysis

- Determine optimal seeding densities.
- Quantify transfection efficiency and reporter gene expression.
- Monitor targeted differentiation of stem cells via morphology or fluorescent markers.





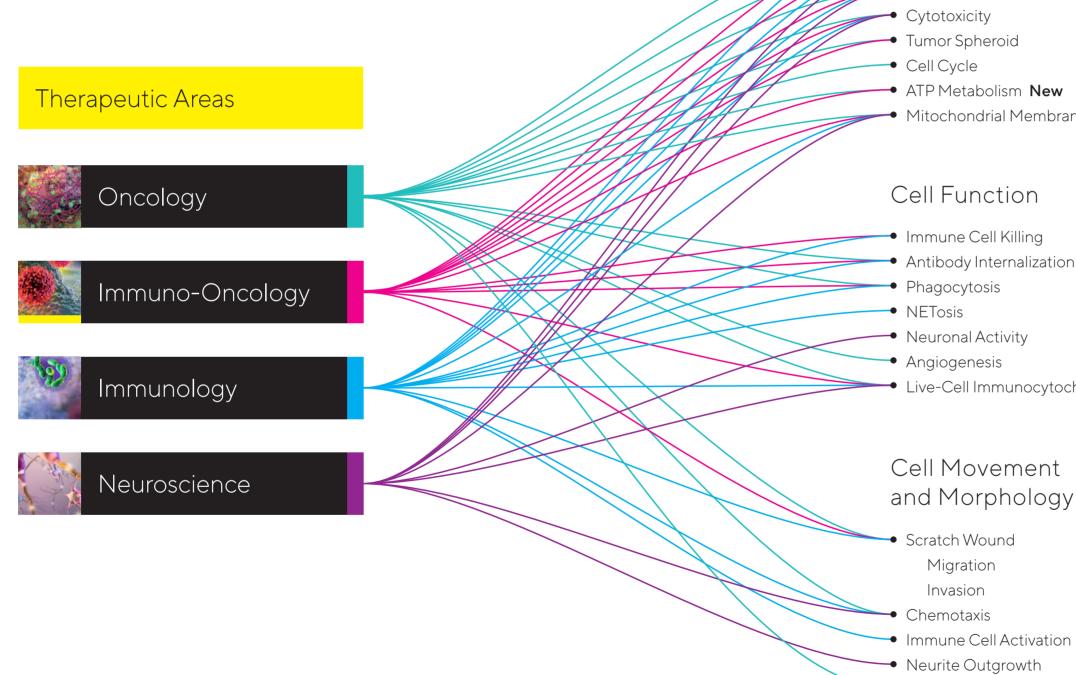
Multiple time points

### Probe phenotypic parameters

- Enjoy walk-away convenience with automated image acquisition and analysis.
- Multiplex measurements in 96and 384-well assay formats.

## Push the Boundaries of Research and Development

Incucyte's suite of applications can fast-track your next discovery. Rapidly generate new insights with a system designed for a range of cell types - from proliferating tumor cells to non-adherent immune cells to sensitive primary cells. Incucyte's design features a fixed sample stage and uninterrupted incubation for minimal disturbance to precious cells.



### Cell Health and Proliferation

Cell Counting

Viability

Apoptosis

Mitochondrial Membrane Potential New

Live-Cell Immunocytochemistry

Spheroid Invasion

## Around-the-Clock Analysis

With Incucyte's Powerful, Automated Workflow, Research Continues Day and Night.



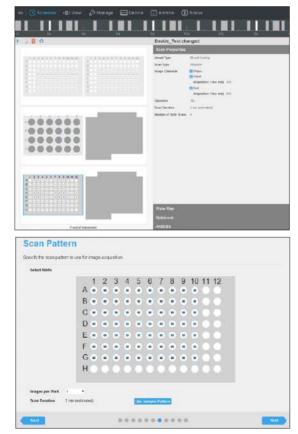
- 1. Simple, Flexible Sample Prep
- Reduce troubleshooting with labtested protocols.
- Reduce artifacts with Incucyte's non-perturbing live-cell reagents.



- User-friendly, guided experimental setup.
- Compatible with over 600 vessels.



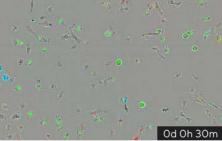
Find out more For more information, please visit www.sartorius.com/Incucyte

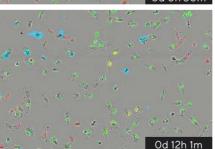


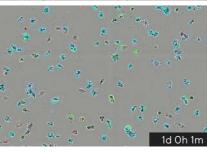
#### Guided interface enables rapid experimental set up, even for first time users.

#### 3. Acquire and View Images Over Time

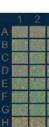
- Choose from up to five fluorescence channels combined with HD phase.
- Vessel View for guick visual survey of results.

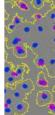












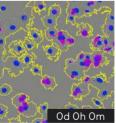
interest via masks.

### $\rightarrow$ 4. Analyze in Real Time

- Efficient and reproducible image analysis.
- Powerful visualization of images and kinetic measurements, including IC50.
- Monitor your work from anywhere with secure remote software access.

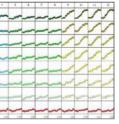


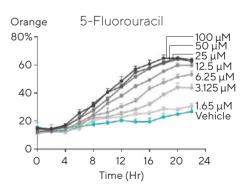
Use Incucyte® Vessel View to review images of all locations in the vessel at once and quickly assess experimental results, plus zoom in on images of interest.



Automatically identify regions of







Generate presentation-ready timelapse graphs.

View all 96- or 384-well kinetic trends at once with Incucyte® Plate Graph and export data to calculate EC50 or IC50 response values.

## Incucyte<sup>®</sup> System Portfolio

A Range of Systems to Meet Varied Needs and Budgets

From our workhorse, the Incucyte S3, to our economical SX1, to the newest member, the frontier-breaking SX5, we deliver real-time insights to simplify progress for labs of any size.



Support an entire research team via concurrent, remote network access. Make real-time decisions from the comfort of your office or home.



## Incucyte® SX5

### Leading the Way With Living Cells.

More Colors.

More Insights.

More Possibilities

See more information in every sample and explore more

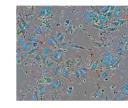
applications. Leverage up to 5 different fluorescence channels, up

to 3 at a time, for long term time-

Study complex immune-tumor cell

Activated PBMC

Go Where Your Research Takes You Non-activated PBMC



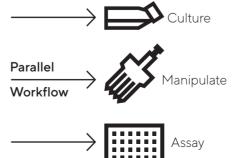
interactions, synaptic activity in neuronal co-cultures, metabolism in cancer cells, and much more – with a single platform.

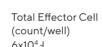
Our new 3-color, patent-pending optical module includes a long wavelength, low phototoxicity NIR channel and optimized reagents for turnkey 3-color applications.

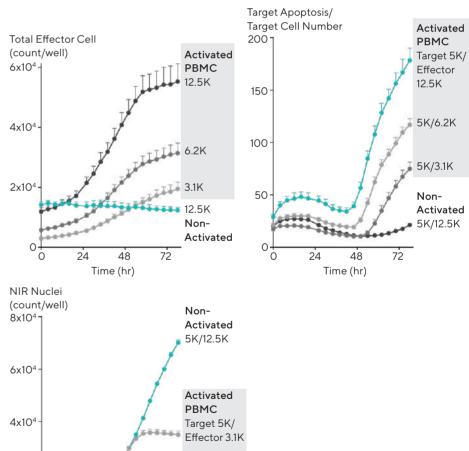
### Key Features

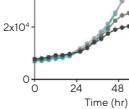
lapse experiments.

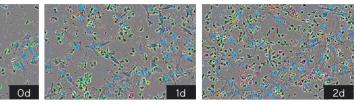
- Our most advanced application offering.
- Multi-user support.
- Up to 5 different fluorescent channels, up to 3 simultaneously.
- 4x, 10x, 20x objectives on an automated turret.
- Support for 3 interchangeable vessel trays and over 600 vessels, up to 6 microplates in parallel.

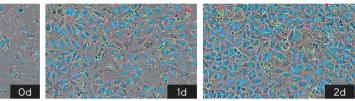












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♣ Find out more For more information, please visit www.sartorius.com/Incucyte

# Incucyte<sup>®</sup> S3

### See What Your Cells Are Doing and When They Do It.

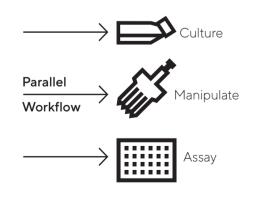
Our flexible assay platform sits inside a standard tissue culture incubator, analyzing even the most sensitive living cells, around the clock, for days, weeks, or months.

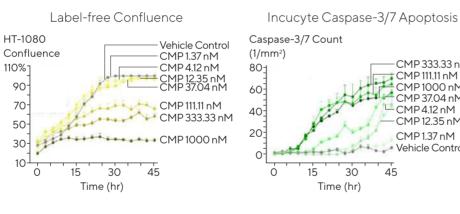
This workhorse can support your team throughout the cell culture workflow, from cell culture QC, to cell manipulation, to microplate assays. Plus all users can remotely view experiments as they unfold.

# Od Oh Om 0d 12h 0m 1d 0h 0m

### **Key Features**

- Robust application suite.
- Multi-user support.
- Two-color Red/Green OR Orange/ NIR fluorescence plus HD Phase imaging.
- 4x, 10x, 20x objectives on an automated turret.
- Support for 3 interchangeable vessel trays and over 600 vessels, up to 6 microplates in parallel.

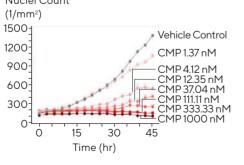






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## Key Features

- Robust application suite. Two-color Red/Green
- fluorescence plus HD Phase imaging.
- 4x, 10x, or 20x objectives, single position use.
- Interchangeable tray to support over 600 vessels, up to 2 microplates in parallel.

#### Serial Workflow



Culture

Manipulate Assay



Find out more For more information, please visit www.sartorius.com/Incucyte

CMP 333.33 nM

CMP 111.11 nM

CMP 1000 nM

CMP 3704 nM

CMP 4.12 nM

CMP 1.37 nM

45

Vehicle Control

CMP 12.35 nM

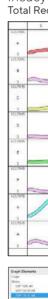
Incucyte<sup>®</sup> SX1

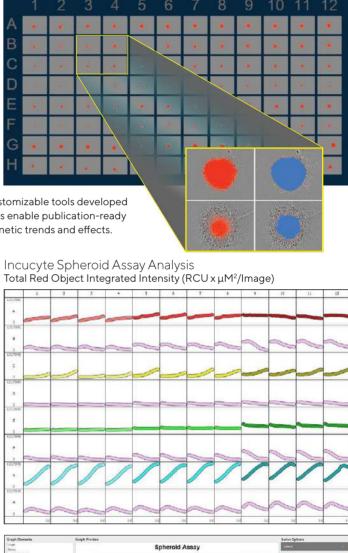
### An Economical Choice for Live-Cell Analysis.

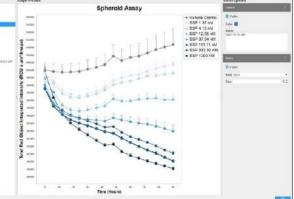
Designed with the small lab in mind, the Incucyte SX1 empowers your cell culture workflow. Never miss important insights again. Seamlessly transition from cell culture QC to assay with interchangeable trays for tissue culture flasks, dishes, or multi-well plates.



Flexible, customizable tools developed for biologists enable publication-ready graphs of kinetic trends and effects.







# Incucyte<sup>®</sup> Ordering Information

### Live-Cell Analysis Systems & Accessories Software Modules

| Product  | Description  | Cat. No. |
|--|--|----------|
| All Incucyte®<br>Live Cell<br>Analysis Systems<br>include:       | <ul> <li>Unlimited software licenses for<br/>standard acquisition and basic analyzer<br/>(additional modules are required for<br/>certain applications).</li> <li>One year manufacturer's software<br/>and service warranty.</li> <li>Onsite installation and training.</li> </ul> |          |
| Incucyte® SX5<br>Live-Cell Analysis<br>System*                   | <ul> <li>Includes image acquisition<br/>and analysis system with:</li> <li>HD Phase/Green/Orange/Near IR<br/>Optical Module.</li> <li>4x, 10x, and 20x objectives on an<br/>automated turret.</li> <li>Controller with 27TB storage.</li> </ul>                                    | 4816     |
| Incucyte® S3<br>Live-Cell Analysis<br>System                     | <ul> <li>Includes image acquisition<br/>and analysis system with:</li> <li>HD Phase/Green/Red Optical Module.</li> <li>4x, 10x, and 20x objectives on an<br/>automated turret.</li> <li>Controller with 16 TB storage.</li> </ul>  | 4647     |
| Incucyte® S3<br>Live-Cell Analysis<br>System for<br>Neuroscience | <ul> <li>Includes image acquisition<br/>and analysis system with:</li> <li>HD Phase/Orange/Near IR Optical<br/>Module.</li> <li>4x, 10x, and 20x objectives.</li> <li>Controller with 16 TB storage.</li> </ul>  | 4673     |
| Incucyte® SX1<br>Live-Cell Analysis<br>System                    | <ul> <li>Includes image acquisition<br/>and analysis system with:</li> <li>HD Phase/Green/Red Optical Module.</li> <li>Controller with 16 TB storage.</li> <li>Minimum of one objective and one tray<br/>must be purchased separately.</li> </ul>                                  | 4788     |
| Incustore® Storage<br>Unit                                       | <ul> <li>Additional 33 TB storage for Incucyte<br/>SX5, S3 or SX1</li> </ul>   | 4689     |

\* additional optical modules available, please contact your technical sales specialist

| Product  | Description  | Cat. No.  |
|--|--|-----------|
| Incucyte®<br>Cell-by-Cell<br>Software Module               | Perform label-free cell counts<br>and subsequent classification and<br>analysis of cell subsets over time. | 9600-0031 |
| Incucyte <sup>®</sup> Spheroid<br>Software Module          | Quantify spheroid growth , health, and invasion over time.   | 9600-0019 |
| Incucyte <sup>®</sup> Cell<br>Migration<br>Software Module | Quantify cell movement into<br>cell-free zones<br>(requires Woundmaker and<br>Imagelock plates).           | 9600-0012 |
| Incucyte® Chemotaxis<br>Software Module                    | Quantify the dynamics of<br>chemotactic migration (requires<br>Clearview™ Chemotaxis plates).              | 9600-0015 |
| Incucyte® Neurotrack<br>Software Module                    | Quantify the dynamics of neurite outgrowth.  | 9600-0010 |
| Incucyte® Neuronal<br>Activity Software<br>Module          | Quantify the dynamics of neuronal activity.  | 9600-0032 |
| Incucyte®<br>Angiogenesis<br>Software Module               | Quantify the dynamics of tube formation during angiogenesis.   | 9600-0011 |
| Incucyte® ATP Analysis<br>Software Module                  | Quantify cell type-specific ATP content over time.   | 9600-0033 |
|  |  |           |

Harness the power of live-cell analysis with a full range of Incucyte reagents and consumables to revolutionize the way you quantify cell behavior. To view a complete listing of our reagents and consumables visit: www.essenbioscience.com/reagent

### Sales and Service Contacts

### For further contacts, visit www.sartorius.com/Incucyte



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