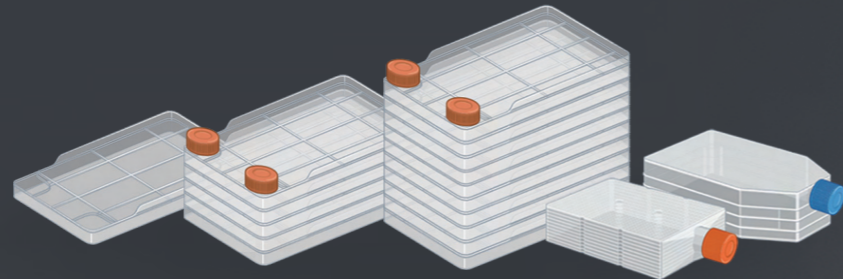


Compatible with various vessels using interchangeable vessel holders

The Celloger® Stack comes with interchangeable vessel holders that allow the use of different vessels, making it versatile and adaptable to various experimental needs.

The standard package includes a holder for Cellstack, while customized holders for vessels of different sizes, such as multi-layer dishes and flasks, are available upon request.



Specification

Dimension (H x W x D)	132 x 330 x 450 mm
Weight	11.6 kg
Objective Lens	2X
Camera	5MP CMOS
Stage	Motorized XYZ stage
Operating environment	10~40°C, 20~95% humidity
File export format	TIFF, AVI
Resolution	2592 x 1944 pixel
Imaging positions	Multiple
Imaging mode	Bright-field
Key functions	Autofocusing, manual focusing, time-lapse imaging, movie maker, confluency, growth curve



Celloger® Stack

Find out the right time to harvest your cells without opening the incubator

Contact us for more information about the system.

Curiosis Inc.
+82 2 508 5237 | sales@curiosis.com | South Korea

FOR RESEARCH USE ONLY and not for use in diagnostic procedures. Specifications subject to change without notice.



CRB014-2502



Automated multi-layer vessel monitoring system



How do you check your cells in a multi-layer vessel while culturing them in an incubator?



There is no way to check my cells, so I have to wait for 2-3 days to see the results.

- You can never know whether your sample is contaminated or needs to be harvested.
- When an issue occurs, you must repeat the experiment, wasting time, effort, and money.

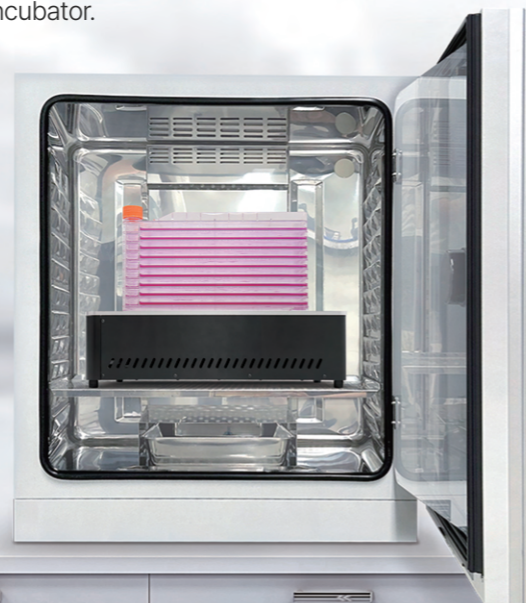


I take the vessel out of the incubator to check them under a microscope.

- Inevitable vessel shaking and changes in temperature affect the cell growth.
- Human error can occur due to varying cell assessment standards among researchers, leading to inconsistent and unreliable data.

SOLUTION

Celloger® Stack is an automated multi-layer vessel monitoring system that enables real-time imaging of cell samples while they are cultured in an incubator. The system can detect cell growth in a multi-layer chambers and help identify the optimal time for cell harvest. Equipped with a motorized camera that moves in all directions, it captures multiple points within its travel range, which can be easily compiled into a time-lapse video with a single click.

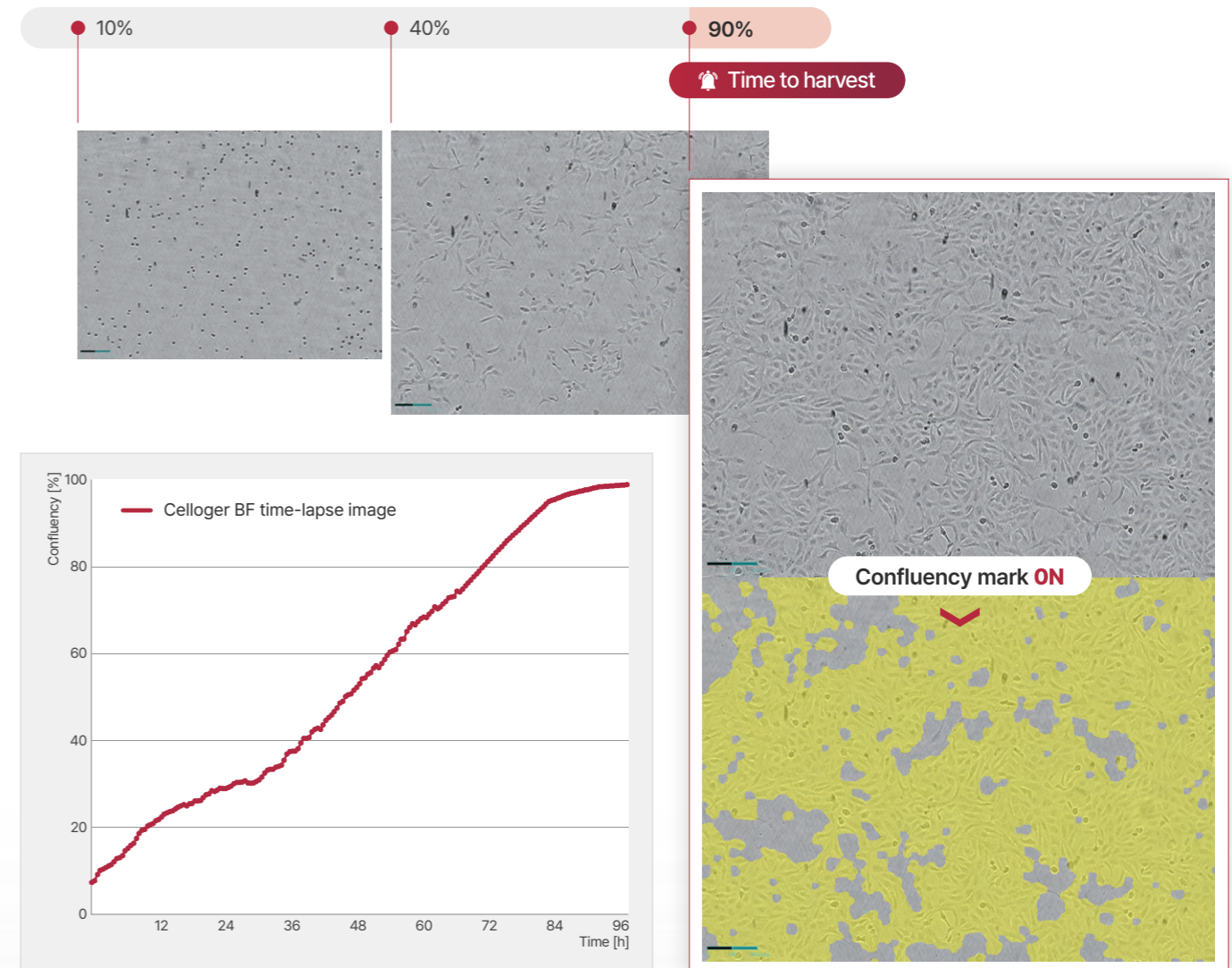


Key features

- ✓ Real-time multi-layer cell monitoring enables comprehensive observation during culture (Images acquired from the bottom layer)
- ✓ Multi-position time-lapse imaging continuously captures cell development and gathers extensive data from different locations
- ✓ Confluency marking helps determine the optimal timing for subculturing
- ✓ Improved reproducibility ensures consistency in large-scale cell culture and production
- ✓ Minimizes contamination risk by eliminating the need to move samples in and out of the incubator

Cell images taken by the Celloger® Stack

U-2OS cells were seeded in a Corning® HYPERFlask® vessel and images were captured every 30 minutes over 4 days using the Celloger® Stack. Time-lapse imaging provided continuous, real-time insights into cell growth and culture conditions.



Confluency graph

The Celloger® Stack analysis software was used to measure cell confluency over time, with the results represented as a graph. This enables researchers to efficiently monitor cell expansion and maintain optimal growth conditions during large-scale cell culture processes.