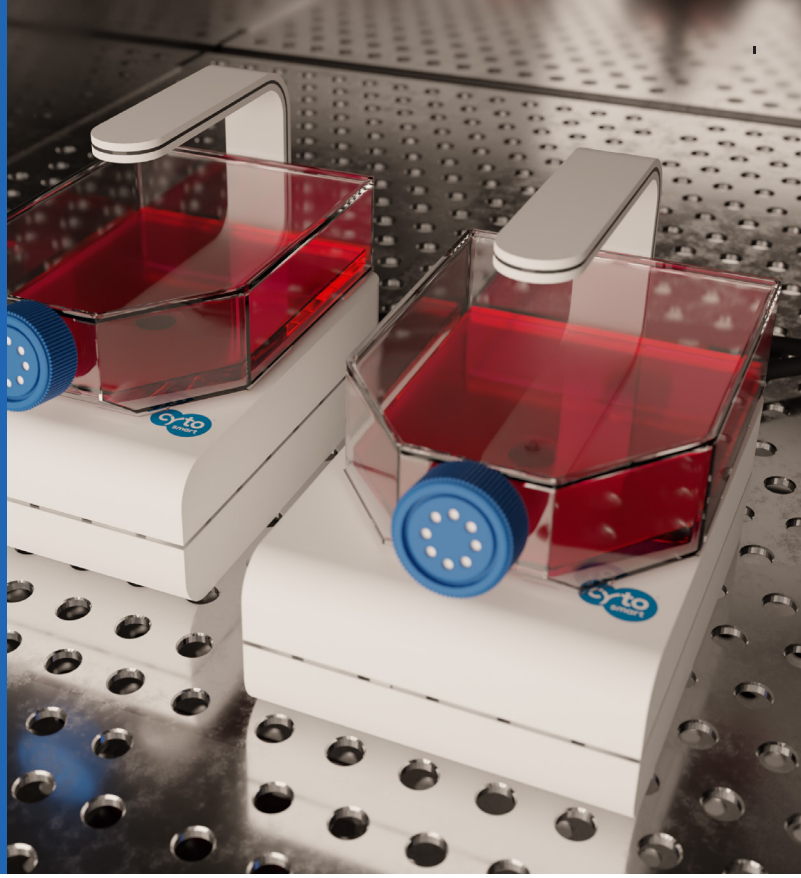
CytoSMART Lux2 Duo Kit

Live cell imaging for quality control



Live-cell imaging is a useful tool for monitoring the quality of cell cultures. A simple set-up utilizing a high quality camera allows researchers to evaluate cellular health at regular points in time. The CytoSMART Lux2 duo kit is a compact and cost-effective method for carrying out this type of analysis, following the complete growth progression of mammalian cells.

Compare cell cultures, supported by robust image analysis software

Imaging at regular time-intervals allows researchers to make quick decisions around cell quality, as any negative indicators such as blebbing, cell rounding and vacuole formation can easily be recognized. Variability in growth speed can be recognized using the CytoSMART cell monitoring software. Image analysis provides an unambiguous read-out for cell confluency, which means you can be confident in your data's integrity. As such, the system is the ideal approach for the systematic comparison of cultures, in order to select the optimal culturing conditions.

Application example: Investigating drug effects

The versatile CytoSMART Lux2 Duo Kit enables the user to create time-lapse videos to investigate a wide range of kinetic processes. Figure 1 and 2 display the progression of cell growth for cells treated with Mytomycin C and a control group.

Check out more examples of live-cell imaging using the CytoSMART Lux2 Duo Kit.

Video generation can be performed in standard CO_2-incubators and hypoxia chambers. Furthermore, cloud computing ensures optimal speed for the image analysis capabilities and enables seperate user accounts for data storage. The device has complete remote functionality. No need to step into the lab after placing the sample*

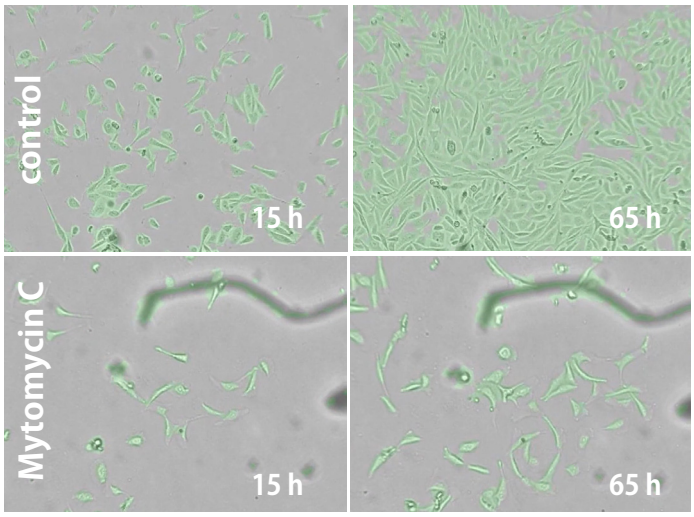


Figure 1: Automated confluency detection. Cell are highlighted in green by overlay of software. Images were captured every 15 mins for a period of 72hours. Snapshots are shown of the growth of CHO-k1 cells after 15 and 65h after treatment.

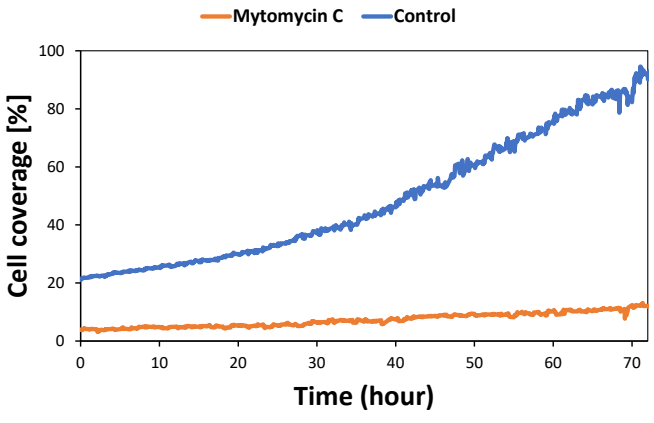


Figure 2: Cell coverage over time. Confluency level (%) of the mytomycin C treated cells and the control group over a period of 72 hours.

https://www.cytosmart.com/products/cytosmart-lux2-duo-kit

*Research use only. Not intended for diagnostic purposes