



Automate COVID19 vaccine development and antiviral therapeutics research with the S-LAB and the Nexcelom Celigo Image Cytometer

S-LAB AUTOMATED PLATE HANDLER



Introduction

The need for high throughput screening together with protecting the research scientist has sought the need to automate laboratory instruments and processes. Increased productivity, reduced cost and improved, consistent performance is available when combining your Celigo with the S-LAB plate handler.

The Celigo Image Cytometer can accelerate vaccine development process by doing assays in 96 or 384 well plates. Using enumeration of foci, plaque or singly infected cells, the Celigo provides fast whole well imaging in bright field and 4-color fluorescence, allowing the foci, plaque or singly infected cells to be segmented, counted as images and provide data rapidly to enable you to make your next decision. Often assays performed with such instruments require the ability to press a button and walk away, with the confidence in the plate handling system and the controlling software to complete the task. This is especially true if there are many plates, demanding overnight unattended processing. The S-LAB allows reliable overnight use of your imager with the option of running kinetic assays with PAA's Assay Manager.

S-LAB Plate handling

The S-LAB plate handling system from PAA is an entry level automation solution designed for easy installation and use. The S-LAB plate handler operates standalone, offering automatic loading and unloading of plates into your Celigo with full plate tracking. With a barcode reader and delidding functionality included as standard, the compact S-LAB plate handler offers a reliable, flexible and easy-to-use automation accessory.

Harmony™ user interface

The Harmony user interface takes you through the process of setting up your assay. Follow the process, review the entries, select run and walk away. The plates are automatically loaded into your Celigo system. Harmony sends you a message when the batch has been completed.

Applications

- / Host Virus Interaction Assays
- / Screening for monoclonal antibodies to block virus entry into host cells
- / Screening for small molecules to disrupt viral replication inside host cells
- / Immune Monitoring and Response Assays
- / Infectivity and Screening Assays
- / Binding and Inhibition Assays

Summary

The Celigo Imaging Cytometer together with the S-LAB plate handler provide a proven integration platform that allows laboratories unattended sample analysis and easy scalability. This pairing is widely used in respected research institutes.

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