

## Automating Flow Cytometry with the Miltenyi MACSQuant® Analyzers and the PAA S-LAB™ Plate Handler



### Introduction

Whether you are doing nanobody research or seeking out therapeutic gamma delta T cells to combat conditions in inflammation, haematology, immuno-oncology, oncology and other serious immune related diseases, Flow Cytometry is a vital technique used to identify and isolate the active cells and biomolecules. The **Miltenyi MACSQuant Analyzer** range can be used with great confidence in these research areas.

### MACSQuant analyzer

The **MACSQuant Flow Cytometry** platform provides a robust and reliable means of mining for rare cells, optimising cell manufacturing processes and investigating signalling pathways. These analyzers allow you to miniaturize your multiplexed cell-based assays to a few microliters, conserving samples and reducing reagent costs. These instruments lend themselves to seamless integration with a variety of robotic and plate handling systems.

### Summary

The **MACSQuant** and **S-LAB automation platform** is optimized to work together, enabling a reliable solution to unattended sample analysis. All SBS format plates can be moved from temperature-controlled storage systems to the analyzer and back, providing unparalleled functionality and versatility.

### S-LAB plate handling

**PAA's S-LAB plate handling** system is an entry level automation solution designed for easy installation and use. The S-LAB plate handler operates standalone, offering unattended loading and unloading of plates into the **MACSQuant Flow Cytometry** instrument with full plate tracking. With a barcode reader and delidding functionality included as standard, the S-LAB plate handler offers a reliable, flexible and easy-to-use automation accessory. The S-LAB plate handler has a maximum capacity of 80 lidded plates and 100 unlidded plates, although incubators from ThermoFisher Scientific and LiCONiC Instruments can be offered as options where temperature and environmental control of the plate is important. The lighting on the Z axis column gives the status of the S-LAB, visually showing that the device is inactive, busy or in an error state, keeping the user informed at all times, especially when the run is complete.

### Harmony™ user interface

**PAA's Harmony user interface** takes you through setting up your assay. Follow the process, review the entries, select run and walk away. The plates are automatically loaded into the **MACSQuant Flow Cytometry** instrument. Harmony sends you a message when the batch has been completed.

### Applications

- / Multiparametric flow cytometry assays
- / Phenotypic analyses
- / Functional assays
- / Rare cell analysis
- / Toxicological assays
- / Cell proliferation studies: whole blood, cell lines, exosomes, yeast cells

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