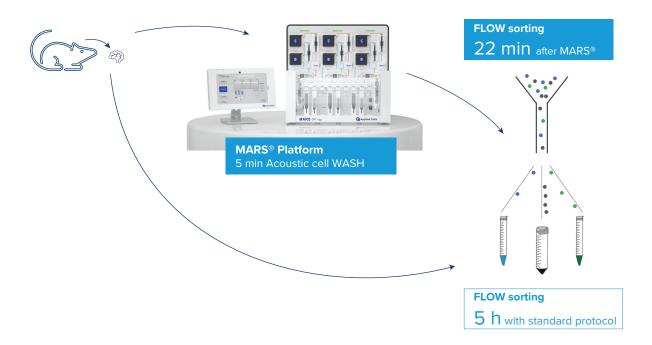


Mouse Brain Tumor Cells Pre-Enrichment for Increased FACS Throughput

INTRODUCTION

The new MARS® acoustic technology utilizes active-microfluidics acoustics for the separation of single cells or nuclei without labeling, based only on the difference in their physical parameters. The cells are isolated with high recovery and ready for flow sorting, single-cell genomics and many other applications.



MARS® PLATFORM FOR PRE-SORTING CELLS

MARS pltaform was used to clean up mouse brain myelin and pre-enrich live GFP+ cells before sorting. This method replaced percoll-based protocol in order to:

- ✓ Increase cell purity and recovery
- ☑ Achieve high cell viability
- ☑ Ensure minimal hands-on sample manipulation
- ✓ Provide an economical solution
- ☑ Shorten FLOW sorting time

Figure 1. MARS® platform eables easy and cost-effective presorting for shortening subsequent FLOW sorting time. In the example experiment, the time was reduced to the total of ~ 30min (10 min MARS + 22 min FLOW). In contrast, sorting the sample directly after isolation took ~300min.

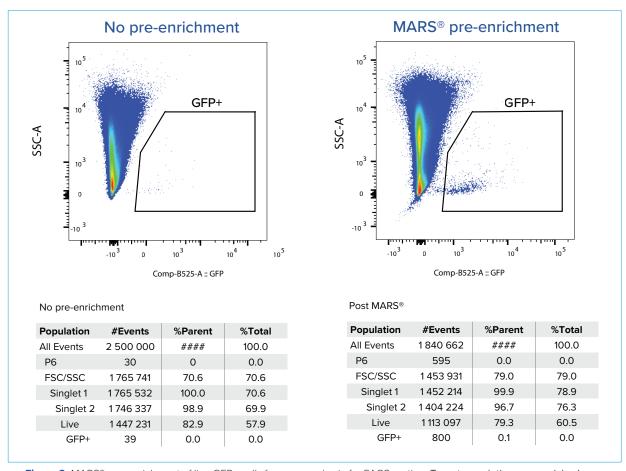


Figure 2. MARS® pre-enrichment of live GFP+ cells from mouse brain for FACS sorting. Target population was enriched 28-fold.

MARS® PLATFORM ENSURES:

- ☑ Gentle, fast debris and dead cell removal
- ☑ No centrifugation
- ✓ Intuitive, touchscreen interface
- Preprogrammed assay protocols
- ✓ Low consumables cost, low reagent consumption

MARS® platform offers exceptional performance in single cells and nuclei isolation from a variety of tissue samples, with very high and fast debris and dead cell removal, purity and recovery up to 90%.

For research use only. Not for use in therapeutic or diagnostic procedures.

© Copyright 2022. All rights reserved. Applied Cells and MARS are registered trademarks of Applied Cells, Inc. All other trademarks are the property of their respective owners.

AC_A021A

