

# Fast and Gentle Neutrophil Isolation with MARS®

## INTRODUCTION

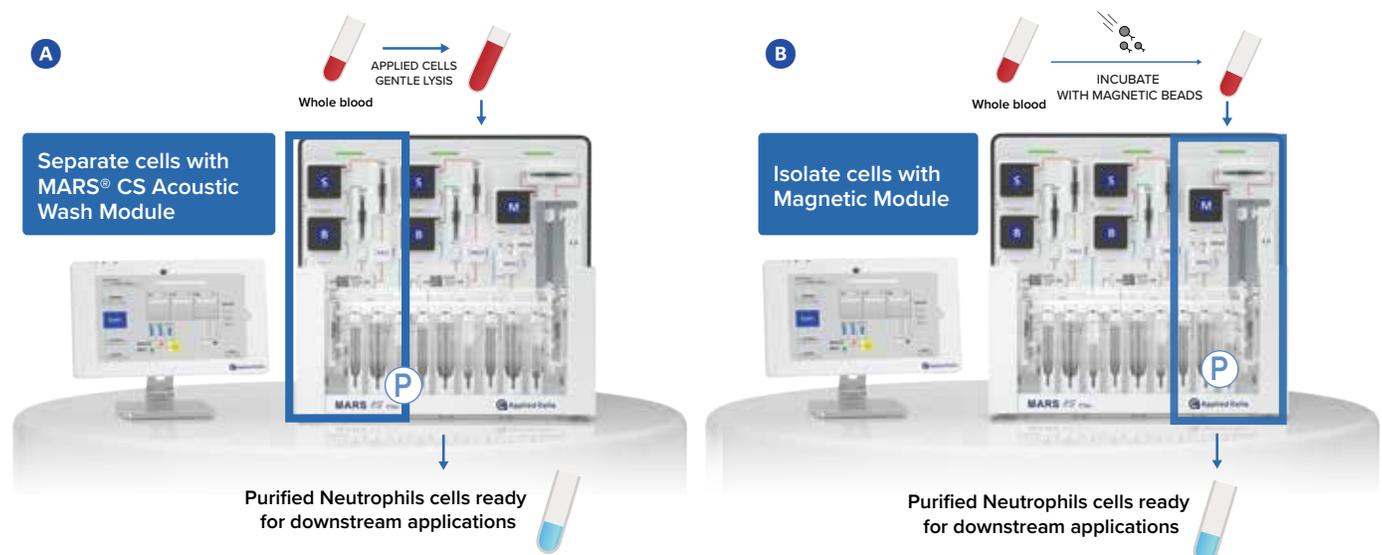
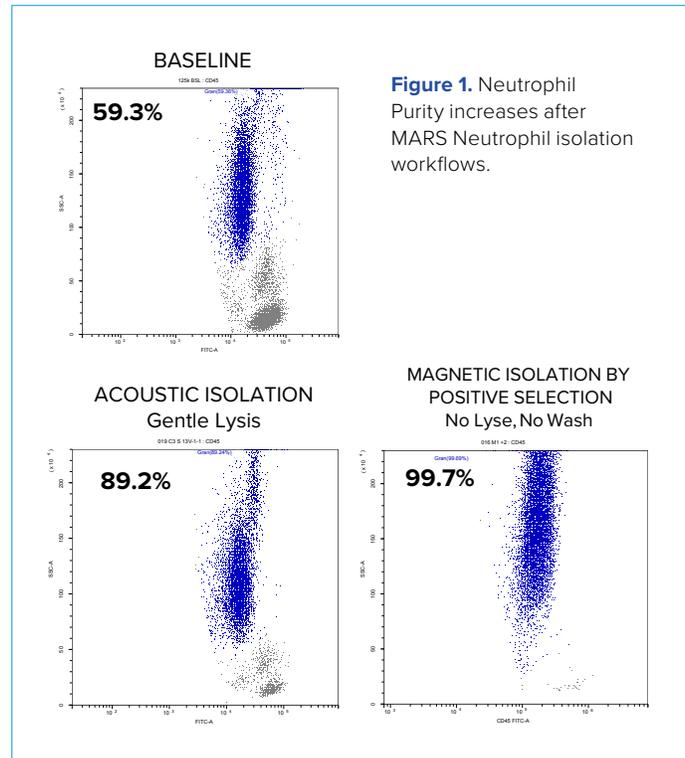
Neutrophils are very sensitive to vigorous mixing and pipetting, which often result in cell activation. Neutrophil isolation from whole blood is usually performed with RBC lysis or density gradient separation method, typically using Percoll-based or Ficoll - based protocols.

## RESULTS

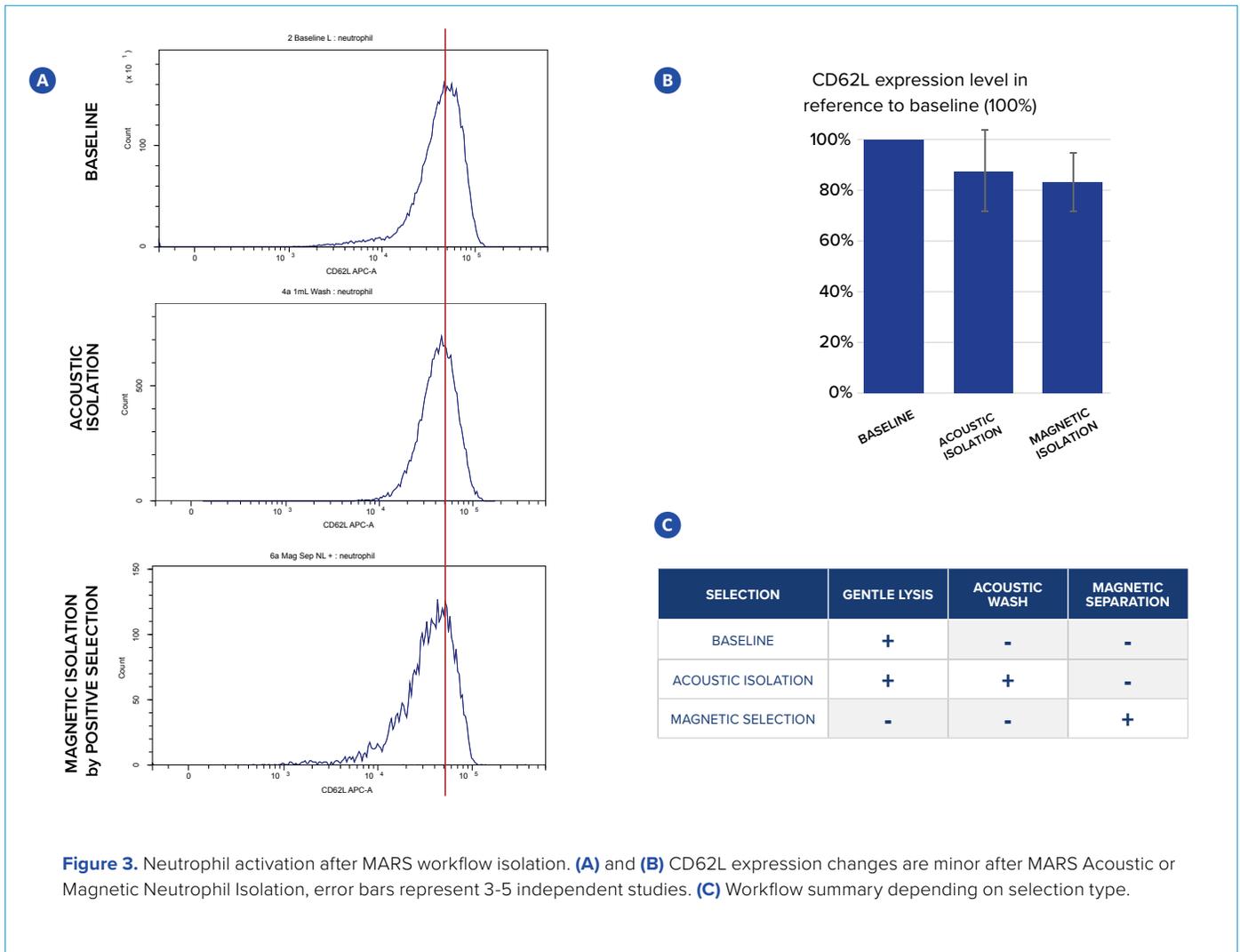
**MARS CS workflow for gentle Neutrophil selection**

provides high purity and yield with:

- ☑ over **87% Neutrophil purity** with gentle RBC lysis and our proprietary label-free Acoustic Isolation
- ☑ over **99% purity** using No Lyse, No Wash Magnetic Selection
- ☑ **no Ficoll** gradient required



**Figure 2.** MARS® CS sample centrifuge-free workflows: **(A)** Acoustic Wash with no labeling **(B)** Magnetic Separation workflow.



## RESULTS

MARS CS system is a solution to gently and rapidly isolate Neutrophils with:

- Gentle** Lysis solution designed to work in combination with Applied Cells **label-free** Acoustic Separation technology
- High neutrophil viability** after isolation
- Lysis-free Magnetic** Neutrophil Isolation
- Minimal hands-on** sample manipulation
- High Neutrophil recovery, **minimizing cell loss**
- No centrifugation**
- Fast** and **easy workflow** for assay optimization

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