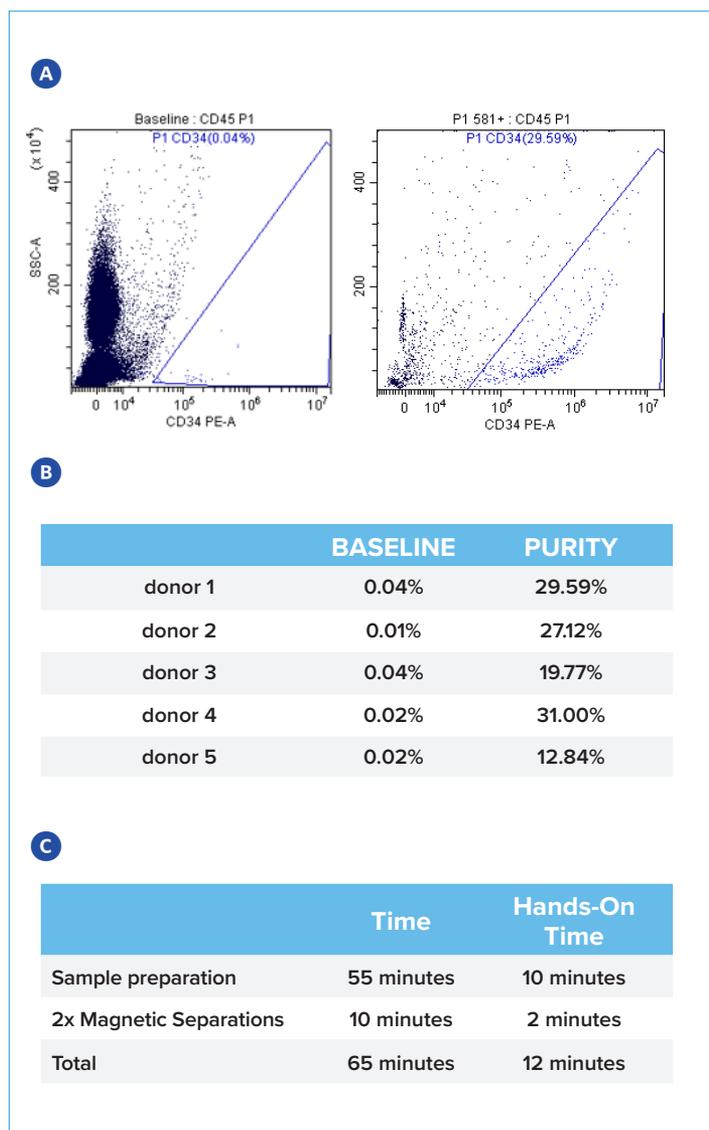


High purity and recovery

Positive Selection of CD34+ cells from Whole Blood

CD34+ cell isolation from whole blood is usually performed with RBC lysis or a density gradient separation method, typically using Ficoll - based protocols. This methodology is very time and labor-intensive and leads to high cell loss. Our No-Lyse-No-Wash (NLNW) protocol is fast and cost-effective. The MARS® Bar system together with MARS MAG LINE of reagents can isolate stem cells from a low volume of whole blood with high recovery.



High CD34+ Cell Enrichment was Achieved in All Peripheral Blood Samples (Fig.1) with:

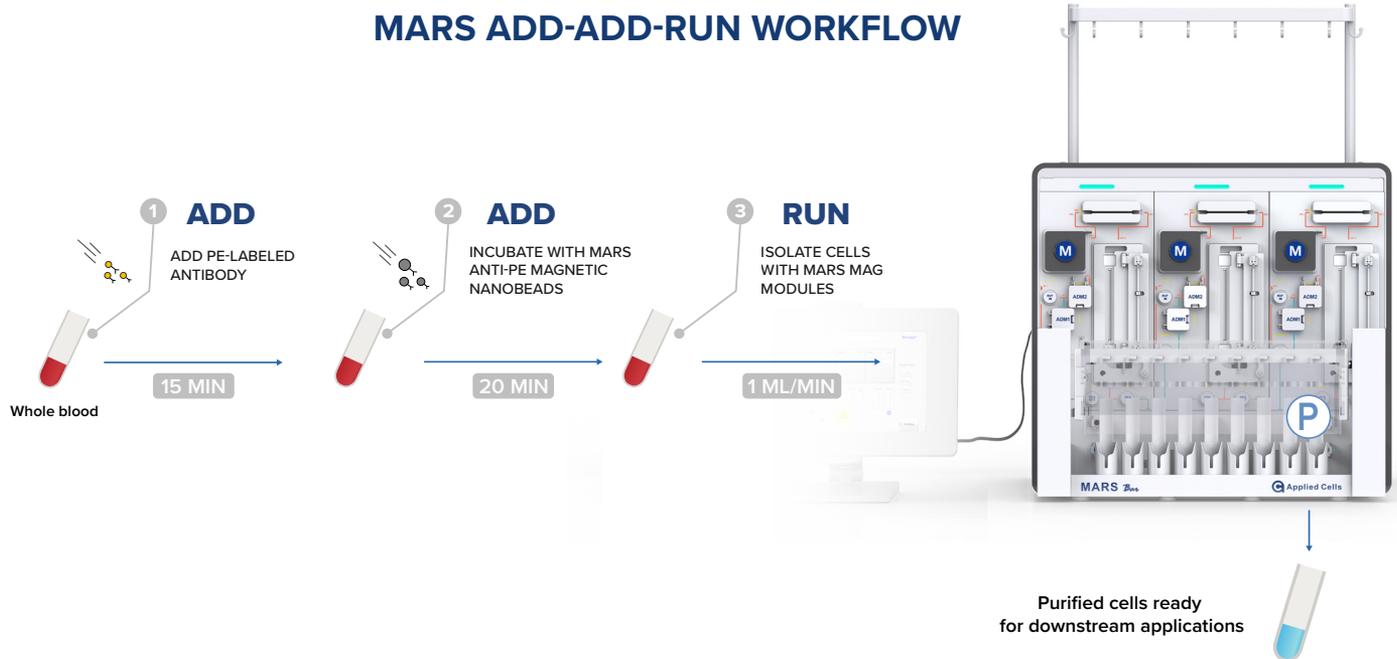
- As high as **1500-fold enrichment**
- Flexibility:** run up to 3 samples in parallel
- Fast and Simple** ADD-ADD-RUN workflow
- Good purity** from very low starting CD34+ level

Using MARS® Bar together with MARS MAG LINE ensures:

- No magnetic column** costs
- Intuitive,** touchscreen interface
- Preprogrammed assay** protocols
- Low consumables **cost**, low reagent **consumption**

Figure 1. CD34+ cells enrichment from peripheral blood (**A**) example gating strategy for Donor 1, (**B**) purities achieved across 5 different donors, (**C**) Processing Time

MARS ADD-ADD-RUN WORKFLOW



FAST ISOLATION

A Typical ADD-ADD-RUN workflow includes 35 min of labeling and column-free cell isolation at the speed of 1ml/min. Compare this to multi-step protocols for other column-based assays. Using the MARS Bar instrument with 3 separate Magnetic modules you can process 3 independent samples in parallel.

FLEXIBLE PROTOCOL

Capture and purify any subpopulation of PE-labelled white blood cells with the highest recovery, with no need for subset-specific antibodies conjugated to magnetic beads.

ECONOMICAL SOLUTION

Our solution means no need for RBC lysis, and the flexibility to use the same MARS anti-PE Nanobeads for capturing different PE-labeled cell populations.

EASY WORKFLOW

Isolating cells with the MARS integrated solution uniquely allows for a no-lyse, no-wash protocol, greatly accelerating the isolation speed and providing gentle sample treatment. The simple ADD-ADD-RUN protocol is exquisitely easy.

[LEARN MORE](#)

[BOOK A VIRTUAL DEMO](#)

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