# NK cell isolation with MARS® Platform

## INTRODUCTION

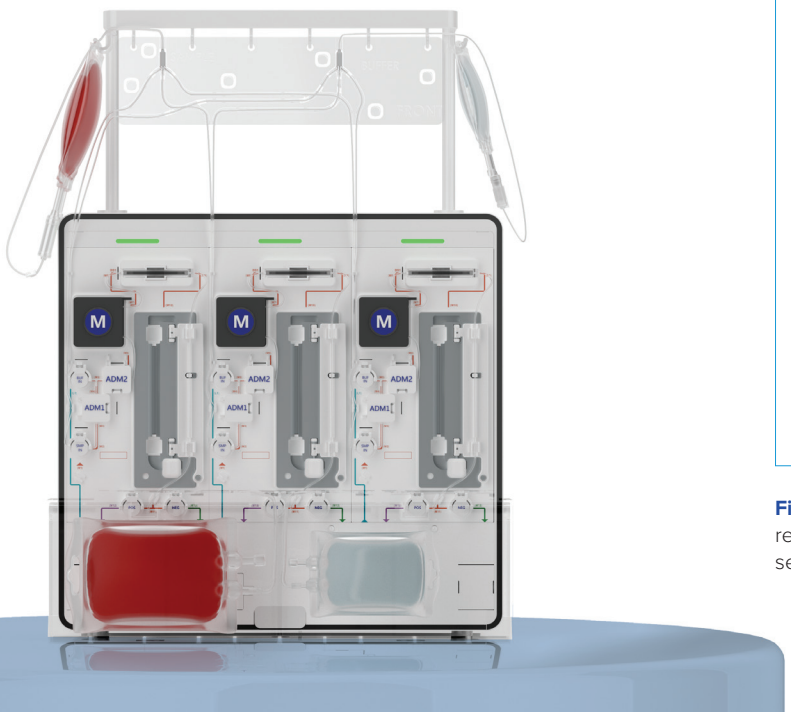
Over the last years, NK cells have gained significant attention in the field of cancer immunotherapy and many efforts are emerging for developing and engineering NK cell-based cancer immunotherapy. Obtaining a large quantity of NK cells requires a democratized cell isolation solution for both pre-clinical and clinical applications. The **new MARS® Bar system** enables a new generation of large scale, magnetic CD56+ cell isolation technology for separation of Apheresis, Leukopaks, Whole Blood or Bone Marrow cell products.

### High CD56+ Cell Enrichment was Achieved in Peripheral Blood Samples (Fig.1) with:

- ☑ Over **95% purity and** high **recovery**
- ☑ **Flexibility**: run up to 3 samples in parallel or one large sample through our sterile bag-in-bag-out process
- ☑ **Fast and Simple** ADD-ADD-RUN workflow

### Using MARS® platform ensures:

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



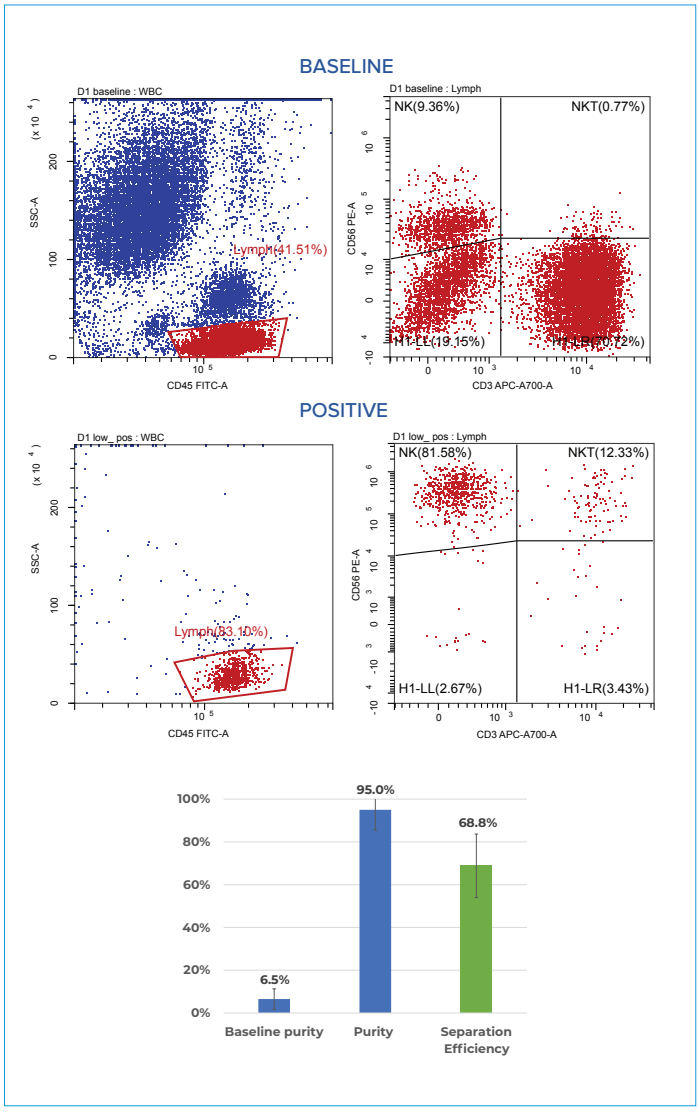




**Figure 1.** CD56+ cell isolation from Peripheral Blood: example data representing CD56+ population purity after MARS immunomagnetic separation.

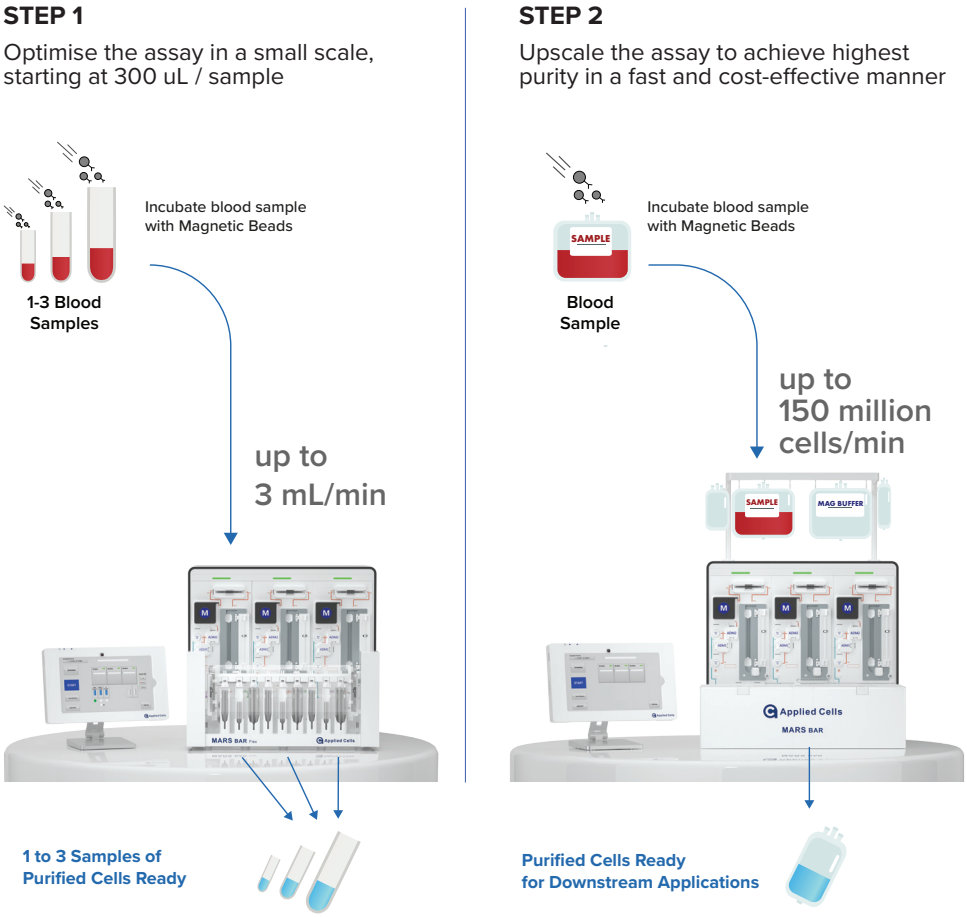



**Figure 2.** MARS® platform eables easy and cost-effective assay optimisation and upscaling.

## RESULTS

MARS® platform is a powerful solution for rapid NK cell isolation optimisation and upscaling (Fig. 2) with:

- ☑ Very high cell **purity and recovery**
- ☑ Very high cell **viability**
- ☑ **Minimal hands-on** sample manipulation
- ☑ **Fast** and **easy workflow** for assay optimization
- ☑ Immunomagnetic, **matrix-free** cell isolation
- ☑ **Economical** solution
- ☑ **Sterile** and disposable fluidics for large scale isolation

**MARS® Bar offers a fully enclosed bag-in-bag-out (BIBO) configuration for high performance, sterile cell processing and culturing.**

**LEARN MORE**

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



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