



MARS[®] Ingenuity[™] line

in collaboration with

T&L BIOTECHNOLOGY

MARS® Ingenuity™ Reagent kits offer comprehensive solutions for the advancement of global cell therapy research, development and manufacturing. Designed with both Research Use Only (RUO) and GMP-grade reagents, these kits provide a fast and straightforward approach to cell isolation, supporting a wide range of therapies including CAR-T, immune cell-based therapies, stem cell-based therapies, and cancer vaccine development on the MARS® Bar Platform.

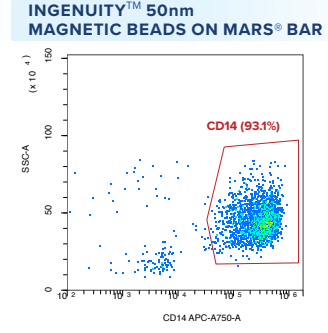
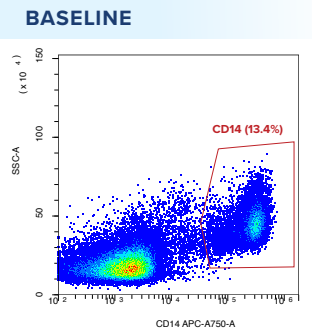
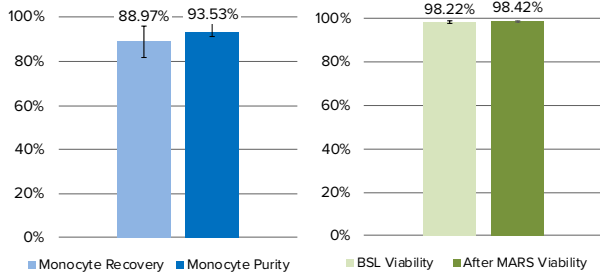
The reagent kits include beads ranging from antigen-specific 50 nm biodegradable nano-beads to CD3/CD28 4.5 µm micro-beads, supporting diverse isolation requirements. Optimized for use with the MARS® Bar Platform column-free isolation system, MARS® Ingenuity™ Reagents ensure seamless workflow transfer from research and development to GMP manufacturing, while maintaining consistent and reliable performance. With the flexibility to isolate cells from various samples, including Leukopak, PBMC, and whole peripheral blood, without the need for a centrifuge, the kits save time and enhance operational efficiency.

Cost-effectiveness lies at the core of our mission, empowering cellular and gene therapy (CGT) developers to boost productivity and accelerate time to market. By streamlining processes and offering high-quality reagents, the MARS® Ingenuity™ Line represents a transformative leap forward in cell therapy development, designed to meet the evolving needs of the industry and drive unprecedented advancements in patient care and treatment.

REAGENT	CAT. NO.	UNIT	DESCRIPTION
Ingenuity RUO Direct CD4	IR_CD4_2	2mL	1B total cells, 2mL, RUO, 50nm
Ingenuity RUO Direct CD8	IR_CD8_2	2mL	1B total cells, 2mL, RUO, 50nm
Ingenuity GMP Direct CD4	IG_CD4_5	5mL	5B total cells, 5mL, GMP, 50nm
Ingenuity GMP Direct CD8	IG_CD8_5	5mL	5B total cells, 5mL, GMP, 50nm
Ingenuity RUO Direct CD14	IR_CD14_2	2mL	1B total cells, 2mL, RUO, 50nm
Ingenuity GMP Direct CD3/CD28	IG_CD3-28_5	5mL	1B total beads, 5mL, GMP, 4.5um
Ingenuity Sterile MAG Buffer	IG_MB_500	500mL	MARS Ingenuity Line buffer: PBS with 2mM EDTA in 500mL sterile sample bag



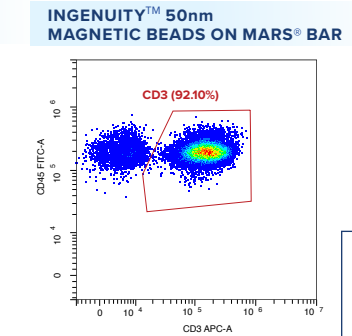
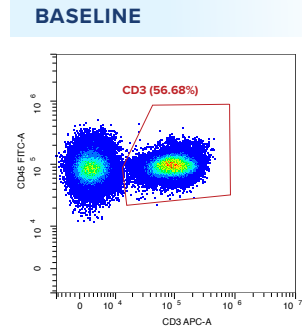
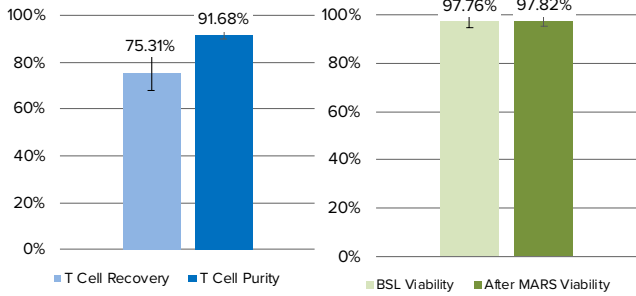
CD14+ Monocyte Isolation



Monocyte isolation from peripheral blood mononuclear cells (PBMC) using the MARS® Bar platform, n = 4 PBMC samples.

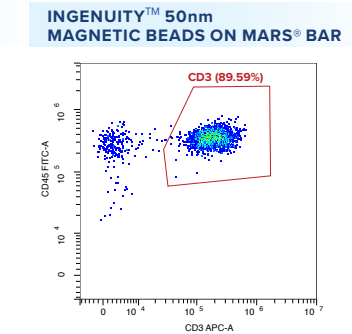
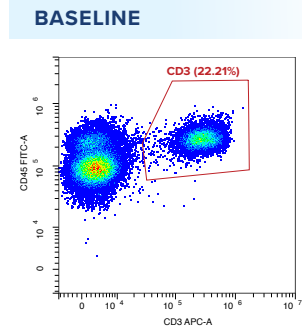
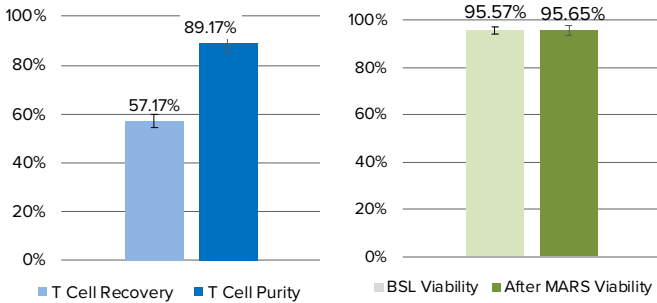
CD4+/CD8+ T cell Isolation

FROM PBMC



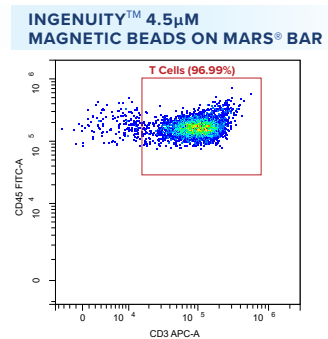
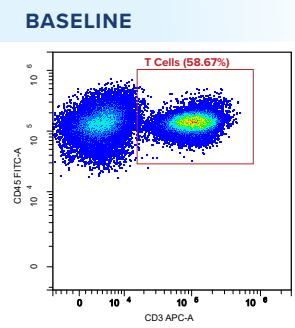
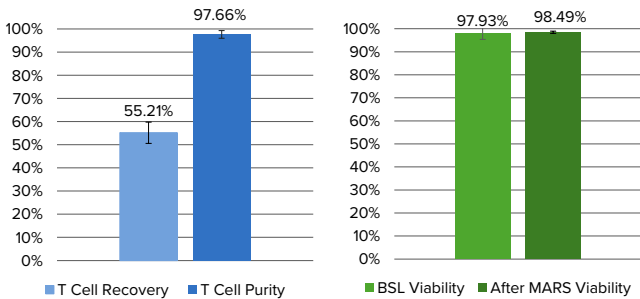
CD4+/CD8+ T cell isolation from peripheral blood mononuclear cells (PBMC) using the MARS® Bar platform, n=12 samples.

FROM WHOLE BLOOD



CD4+/CD8+ T cell isolation from whole blood using the MARS® Bar platform, n=3 healthy donor samples.

CD3+/CD28+ T cell Isolation



CD3+/CD28+ T cell isolation from peripheral blood mononuclear cells (PBMC) using the MARS® Bar platform, n = 4 PBMC samples.

MARS® Bar Cell Separation Platform

The MARS® Bar Magnetic Separation Platform is a closed and automated isolation for cell therapy development and manufacturing. Together with fit-for-purpose consumables, it delivers high cell purity, recovery, and viability.

Designed to be used with magnetic beads, MARS® Bar Magnetic Separation Platform uses column-free technology performs in-flow separation at high flow rate to achieve exceptional cell recovery, purity, a wide range of reaction volumes while maintaining cell viability. Together with process flexibility, sterile single-use consumables, and software with 21 CFR Part 11 compliance, this system is designed to help you easily scale from development to clinical and commercial manufacturing.

FLEXIBLE PROTOCOLS
BROAD RANGE OF VOLUMES AND SAMPLE TYPES
FAST AND EASY PROTOCOL OPTIMIZATION

FULLY ENCLOSED
AUTOMATED
ECONOMICAL



Discovery

Development

Manufacturing



in collaboration with
T&L BIOTECHNOLOGY



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