

MARS[®] Bar Flex

VERSATILE PLATFORM SUPPORTING
FLEXIBLE AND COST-EFFECTIVE
IMMUNOMAGNETIC CELL ISOLATION



**FAST AND
FLEXIBLE**



**HIGH
PERFORMANCE**



COST-EFFECTIVE

RUO

Fast and flexible protocol optimization
RUO reagents for cost-effective workflow
Up to 3 samples in parallel

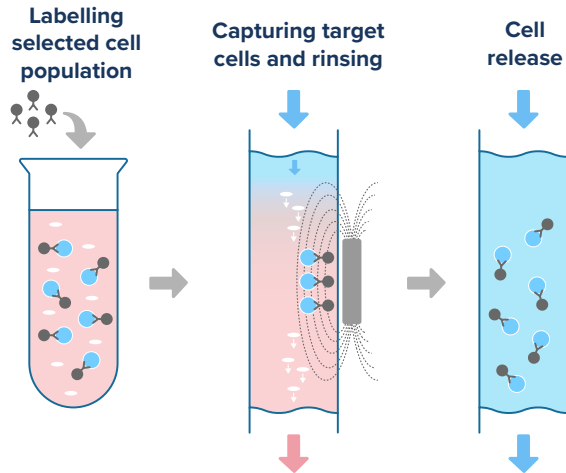


CELL SEPARATION. REDEFINED.

FAST • EFFICIENT • COST-EFFECTIVE CELL ISOLATION

Advanced Magnetic Selection

Column-free cell selection
with 50nm - 4.5 µm magnetic beads



Our proprietary, column-free technology delivers high purity and recovery of target cells, while effectively eliminating unwanted ones. This streamlined process using proprietary MARS® In-Situ Rinse saves time and **improves purity** and **recovery**, reducing manipulation steps and simplifying the process, **minimizing handling** and **saving time**.

A VARIETY OF INPUT SAMPLES



PERIPHERAL BLOOD



BONE MARROW



APHERESIS AND LEUKOPAKS



MNCS AND PBMCS

BROAD RANGE OF CELL TYPES



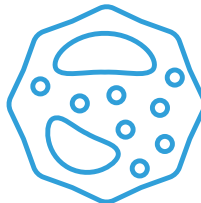
T CELLS
B CELLS



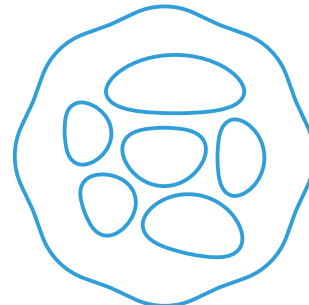
NK CELLS



MONOCYTES



GRANULOCYTES



MEGAKARYOCYTES

SPECIFICATIONS

MARS® Bar Flex (Research use)

MARS® Bar (Cell therapy development)

SAMPLE		
Magnetic Cell labeling	✓	✓
Containment	5 mL, 15 mL, 50 mL tubes	Bags
Sample processing	1 sample each module Max 3 samples in parallel	1 sample by 3 parallel channels
Sample types		
• Whole blood	✓	✓
• Apheresis	✓	✓
• Leukopaks	✓	✓
• Frozen PBMC's	✓	✓
• Bone marrow	✓	✓
• Dissociated Tissue	✓	✓
REAGENTS & CONSUMABLES		
Isolation buffer	MARS® MAG buffer	
Isolation reagents		
• MARS® MAG lines (RUO)	✓	
• MARS® Ingenuity Line (RUO, GMP)	✓	✓
Fluidics	Open-end tubing sets Cleaning and sterilization protocols	Closed tubing set (Gamma radiated)
CELL ISOLATION		
Positive isolation	✓	✓
• Direct from Whole Blood & Leukopak	✓	✓
Depletion	✓	✓
Positive & negative tubing sets	Same (program enabled change)	
OPERATIONS		
Speed	Protocol dependent; 0.5-6 mL/min	
Column-free MARS® MAG in-flow technology	✓	✓
Separation channels	Flex-BIBO scalable	
Redundancy	3x Modules	
Time to assemble tubing set	<5 min*	<15 min*
Time to initiate isolation	<2 min	< 8 min
Typical time to process 1e9 cells	<15 min (75e6/mL)	
Capacity	0.5 - 45 mL per module	20 mL - 1L Expandable >1L
In-situ rinse for higher purity	✓	✓
Max total cells processable	No practical limit	
Batched isolation	✓	✓
Operation in bio-safety hood	✓	N/A
Additional configuration	Serial program**	N/A
SOFTWARE		
Pre-programmed protocols	✓	✓
Adjustable & lockable parameters	✓	✓
Tiered user rights, Logged UI events	✓	✓
21CFR Part 11 Compliant	✓	✓
Encrypted logs	✓	✓
INSTRUMENT		
Dimensions	20.5" W x 16.5" D x 19.75" H 52cm W x 41 cm D x 50 cm H	20.5" W x 16.5" D x 28" H 52cm W x 42cm D x 74cm H
Weight	62 lb / 28 kg	59 lb / 27 kg

* With standard training ** Customizable on demand

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Learn more

<https://appliedcells.com/mars-instruments/mars-bar-flex/>

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