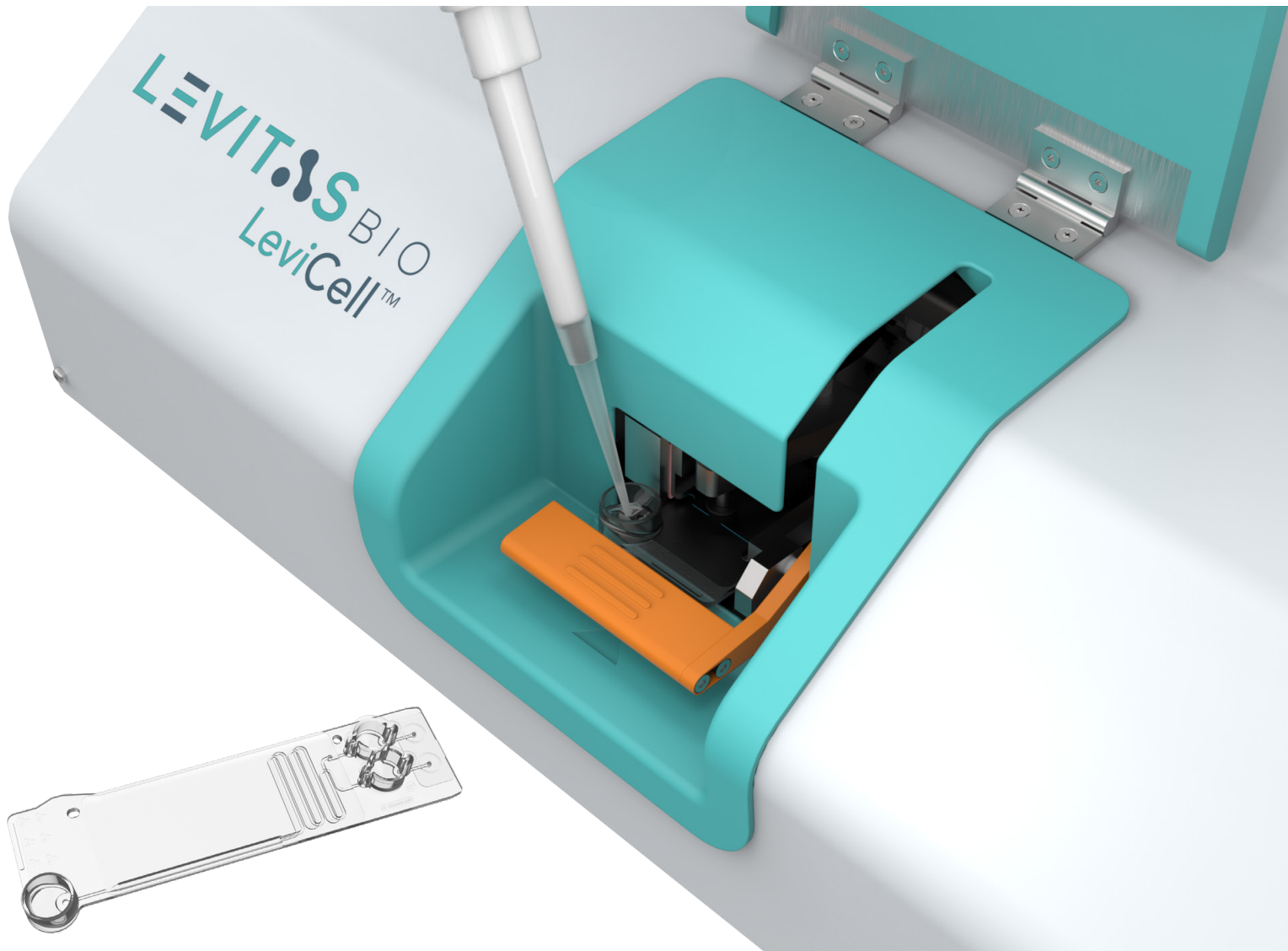


LEVITUS[®]BIO



REDEFINING SAMPLE PREPARATION

FOR BREAKTHROUGH DISCOVERIES



Empowerment Through Innovation



LevitasBio® empowers researchers with innovative tools to accelerate transformative research. The LeviCell® platforms, powered by proprietary, label-free Levitation Technology™, offer a revolutionary approach to cell enrichment and sample preparation. This gentle and efficient system preserves cells' native states while delivering high-quality samples for a wide range of applications.



Viable Cell Enrichment

Semi-automated & simple workflow
Fast & gentle process.
No labels or dyes required.



Cell-Specific Selection

Ready-to-use kits Enrich label-free target cells.
High purity & yield



Debris Removal

Remove both small and large debris
Eliminate dead & dying cells.
No additional steps required.



Sample Analysis

Real-time visualization of sample
AI-based software for analysis.
Next-gen sample QC.

LeviCell 1.0 & Access Systems

- User defined separation criteria
- Low pressure fluidics with low shear stress
- No run-to-run calibration or clean up required
- 100% of sample remains in the consumable
- Brightfield & fluorescent illumination
- Incorporated image capture and analysis software

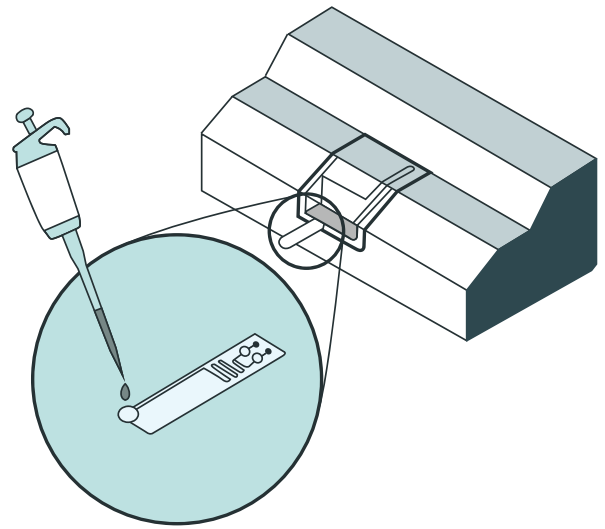


Levitation Workflow

STEP 1

Sample Introduction

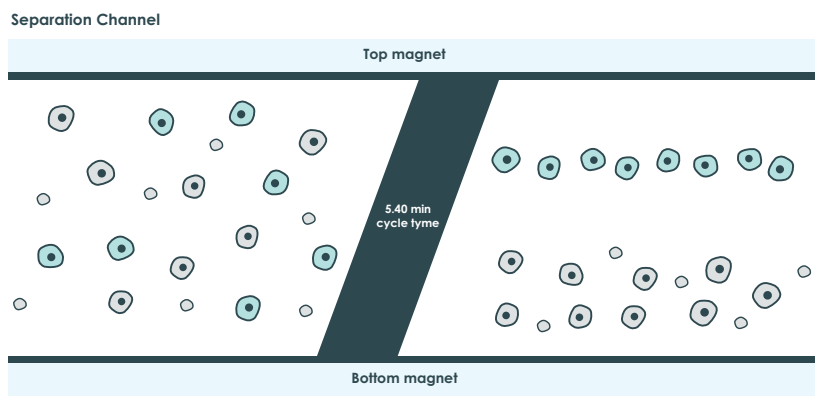
Prepare the sample by adding the Levitation Agent, a paramagnetic solution. After inserting the cartridge into the system, dispense the sample into the inlet well.



STEP 2

Separation channel levitation

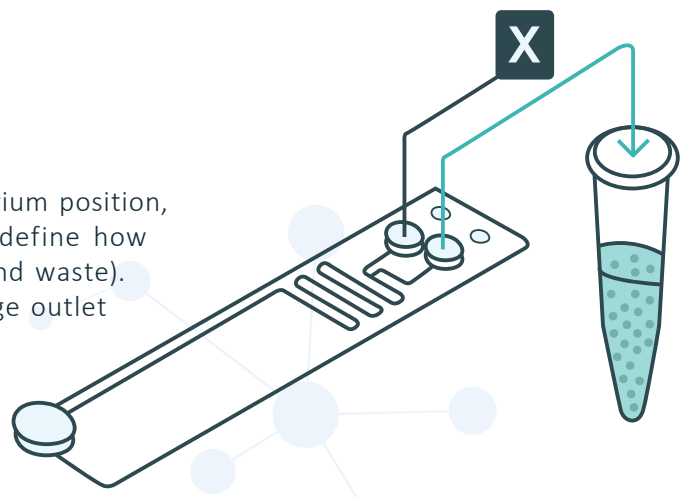
The system automatically loads the sample into the separation channel while the sample is imaged and levitated. The system performs automated, label-free enrichment plus debris removal via levitation.



STEP 3

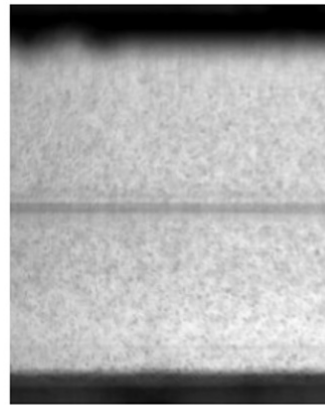
Sample collection

Once the cells have levitated to their final equilibrium position, a live view in the software enables the user to define how the sample will be divided (fraction of interest and waste). Separated fractions are collected into the cartridge outlet wells.

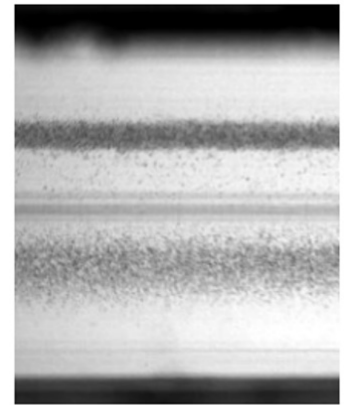


Real-Time Visualization

The LeviCell system onboard camera provides the ability to see cells levitating during the run. This offers added capabilities that are unmatched by any other sample preparation technology available.



Beginning equilibration



Ending equilibration

Enable Diverse Starting Samples

Low viability samples	Low quantity samples	Sensitives cell types	Large fragile samples	Complex samples
archived, frozen	FNA, core biopsies	microglia, neutrophils	organoids, cardiomyocytes	dissociated tumor cells

Sample Preparation Methods Comparison

	Label-free	High viability	High yield	Ease of use	Debris removal	Gentle	Size limit
Levitation	✓	✓	✓	✓	✓	✓	350 μm
Centrifuge	✓	✗	✗	✗	✓	✗	N/A
Beads	≈	≈	≈	≈	≈	≈	30 μm
Bubbles	✗	≈	≈	≈	✗	≈	60 μm
FACS	✗	✗	✗	✗	✗	✗	30 μm

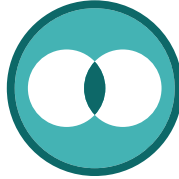
✓ Always
 ≈ Sometimes
 ✗ Never



Advantages of Levitation Technology



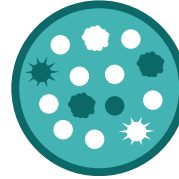
Unparalleled versatility



Robust, unbiased, & reproducible



Improves workflow efficiency



Up to 99% viability of cells



Grant access to limited samples



Maintains native biological states



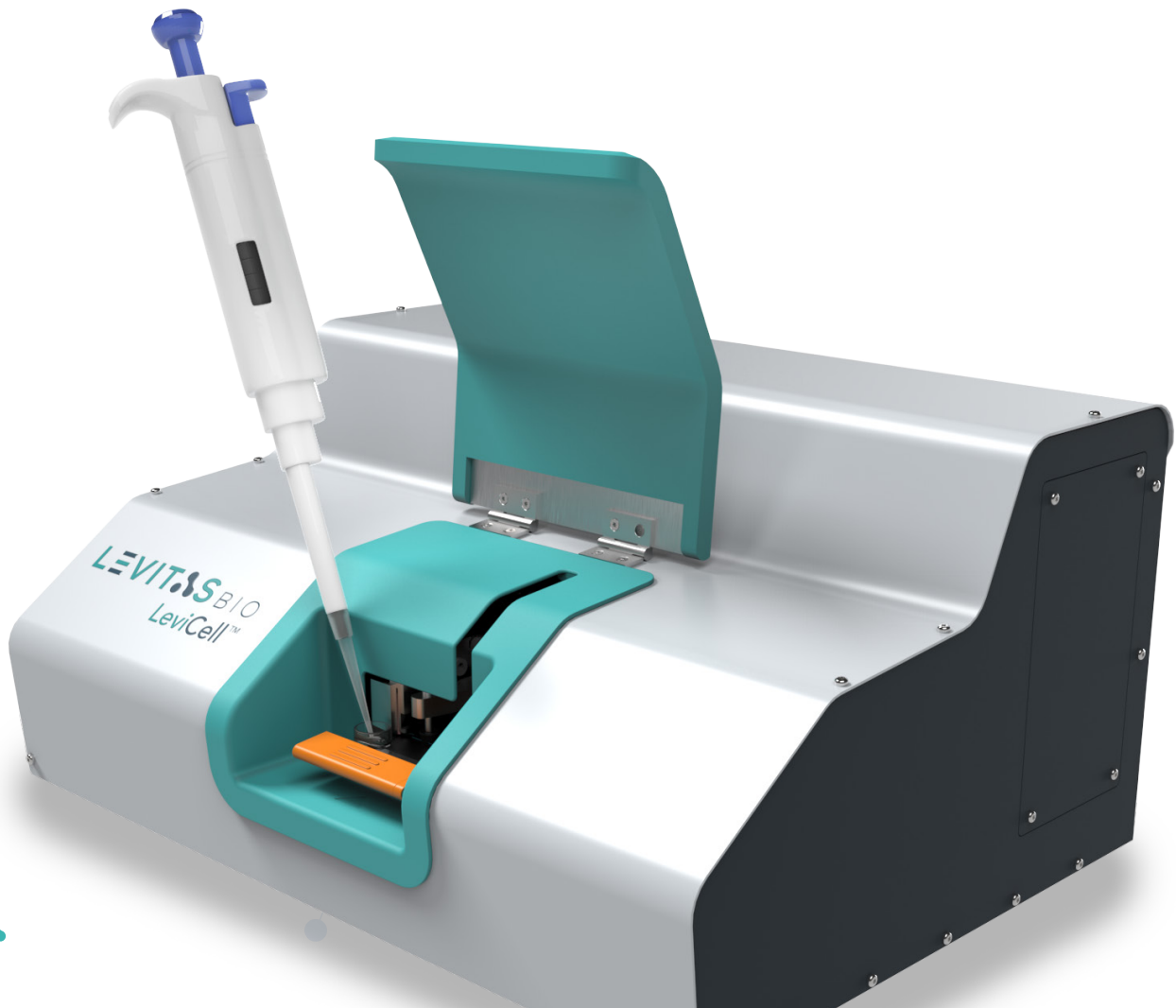
Facilitates counting accuracy



Improves data quality



Reduces wasted resources

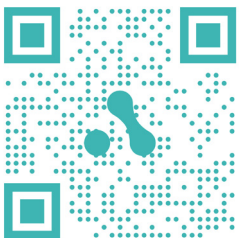


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Product Information

Features	LeviCell 1.0 (PN 1000004)	LeviCell Access (PN 1000005)
Dye & label-free	✓	✓
Brightfield Illumination	✓	✓
Fluorescent Illumination	✓	✗
Adjustable split line	✓	✗
Image capture	✓	✓
Analytical software	✓	✓
Computer	✓	✓
Service plan	✓	✓





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