

LeviSelect™ Cell Debris Depletion Kit

Taking Sample Prep Quality to the Max

Transform Your Single-Cell Research with Ultraclean Sample Preparation

Excess cell debris poses significant challenges to single-cell analysis, leading to:

- Clogged microfluidics channels and sample loss
- Doublet generation and barcode misassignments
- Improper gene expression attribution from debris-associated RNA
- Diminished signal-to-noise ratio
- Increased costs and wasted time

The LeviSelect Cell Debris Depletion Kit delivers the solution.

Drive Consistency, Quality, and Scalability

The LeviSelect Cell Debris Depletion Kit addresses three critical sample prep challenges:

1

Variability

Standardized workflow eliminates sample-to-sample inconsistency

2

Quality

Class-leading debris removal with proven LeviSelect chemistry ensures optimal downstream results

3

Integration

Simultaneous live cell enrichment and maximum debris removal in one seamless protocol

The Perfect Combination: Debris Depletion + Levitation

Combining proven Levitation Technology for cell enrichment with LeviSelect NanoSphere debris removal, this kit is your "GO-TO" solution for achieving superior sample quality across nearly all cell and tissue types.

Key Advantages



Class-Leading Debris Removal in <10 Minutes

- Ultraclean sample prep every time
- Minimal hands-on time
- Proven across diverse tissue types



Exceptional Flexibility

- Works with fresh, frozen, and fixed cells
- Compatible with dissociated tissues
- Supports input ranges from ~100K to 3M cells
- Achieves viabilities up to 91%



Unmatched Scalability

- Process 1 to 96 samples at a time
- Seamless integration with LeviCell platforms
- Standardized workflow for consistent results

Why Choose LeviSelect Cell Debris Depletion Kit?

Superior Performance vs. Traditional Methods

Feature	LevitasBio	Competitor M*
Number of components	1	3
Hands-on time	<10 min	30-40 min
Number of steps	3	Up to 20
Centrifugation needed	No	Yes
Cell activation	Minimal	High
Scalability	1 to 96	Up to 8
Cost per reaction	\$35-\$50**	\$50

*Requires debris removal kit, dead cell removal kit, and MACS columns

**VCE + debris removal per well

Proven Results You Can See

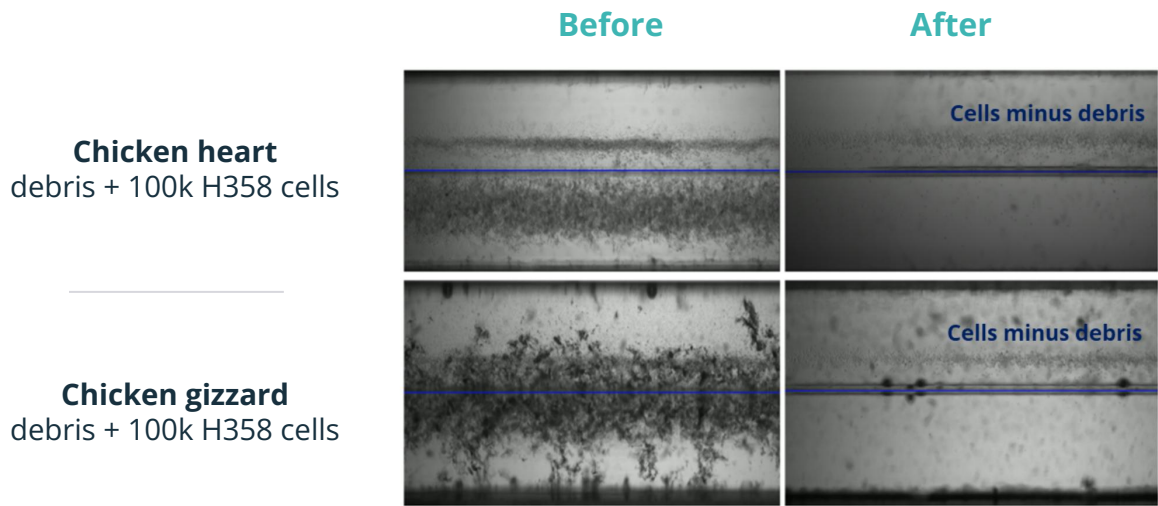


Fig.1: Live imaging of debris depletion on LeviCell 1.0 run. Debris generated from dissociated chicken heart and gizzard tissue spiked into ~100,000 H358 human lung cancer cell line, respectively, and tested with (+) and without (-) the LeviSelect Debris Depletion Kit. With the kit, debris is captured and dragged to the bottom of the image, leaving H358 cells in a band above the blue line for recovery.

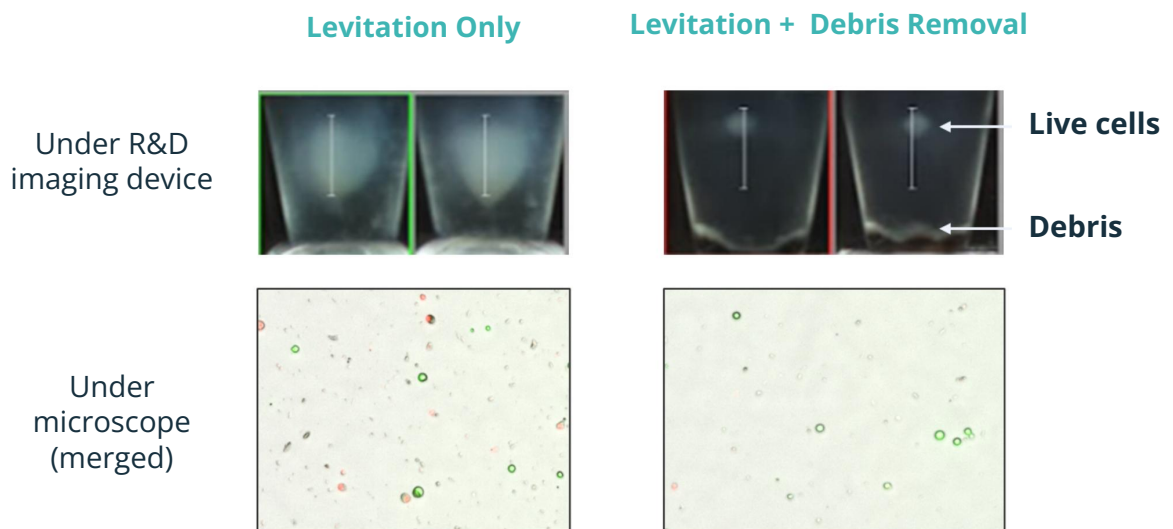


Fig.2: Brightfield and AO/PI stained images of bladder cancer DTC samples processed on LeviCell 96 system. Images show levitated samples and levitated + debris depleted samples. There is significant depletion of debris (indicated) after processing with the debris depletion kit, leaving purified DTCs available for downstream processing. AO/PI images indicate less visible debris present in the levitation + debris removal condition.



Tested Successfully On:

Tissue debris mixtures
(Heart, gizzard, kidney)

Lung and pancreas
(fixed cells)

Bladder and lung dissociated tumor cells (DTCs)

And many more challenging samples

Workflow Compatibility

Fixation Workflows:

10X Genomics
Tissue Fixation &
Dissociation (Flex)

Parse Biosciences
Evercode Cell Fixation

Standard PFA
fixation protocols

Ordering

Part Number	Description
1004060	LeviSelect Cell Debris Depletion Kit (10 rxn)
1004062	LeviSelect Cell Debris Depletion Kit (96 rxn)

Need higher throughput?

Larger reaction sizes (480 rxn) can be made available on-demand.

Please contact us at sales@levitasbio.com for more information.