

# Accelerate Neuroscientific Discovery

Nuclei Extraction and Enrichment from Brain Tissue



# Rethink Nuclear Enrichment from Brain Tissue

## Improve Sample Quality

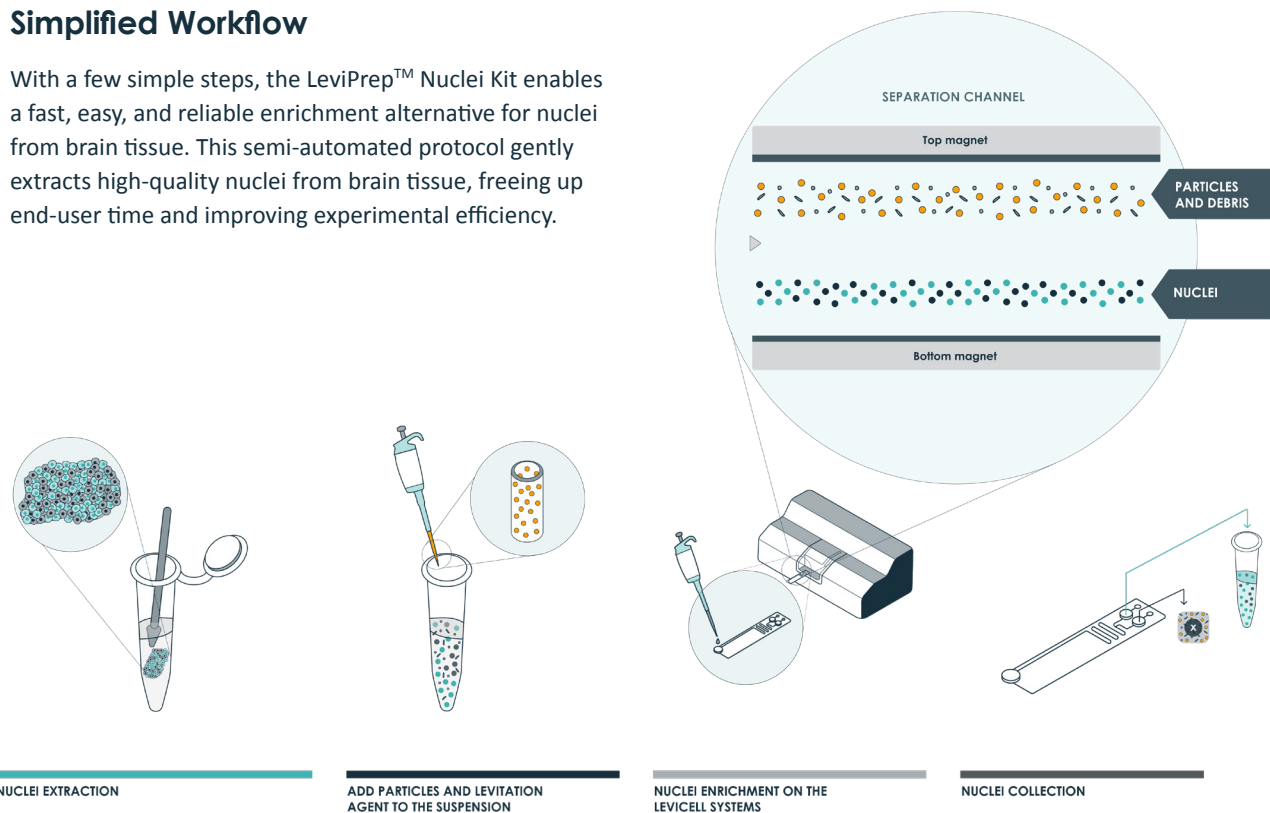
Levitation Technology can now be leveraged for the extraction and enrichment of nuclei from both human and mouse brain tissue, including limited or low quality specimens. Through the use of intrinsic physical properties, Levitation Technology™ enables a fast, gentle, and semi-automated process that enriches for uniform and high-quality nuclei that are free of excessive debris and background contamination.

## Novel Approach

The LeviPrep Nuclei Kit presents a novel approach to enrich uniform and high-quality nuclei from challenging brain samples. By leveraging our unique technology on the LeviCell systems, we enable a consistent and gentle separation of unlabeled nuclei from sample debris. Recognize the full potential of samples to accelerate discovery with LevitasBio®.

## Simplified Workflow

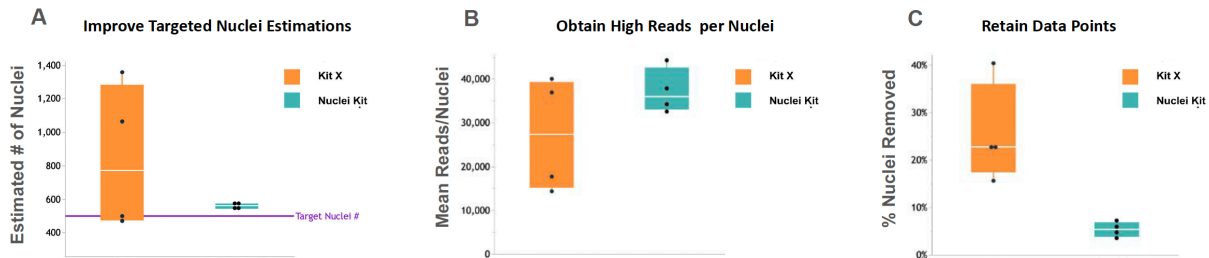
With a few simple steps, the LeviPrep™ Nuclei Kit enables a fast, easy, and reliable enrichment alternative for nuclei from brain tissue. This semi-automated protocol gently extracts high-quality nuclei from brain tissue, freeing up end-user time and improving experimental efficiency.



# Reproducible Discovery

## Quality Yields Accuracy

Avoid the frustration of removing excessive data points due to factors such as poor quality extracts, nuclear aggregates, and excessive debris. Levitation Technology helps improve the accuracy of input estimations, the number of mean reads per nuclei, and reduces contaminating mitochondrial mRNA when compared to a commonly used competitor kit as demonstrated below.

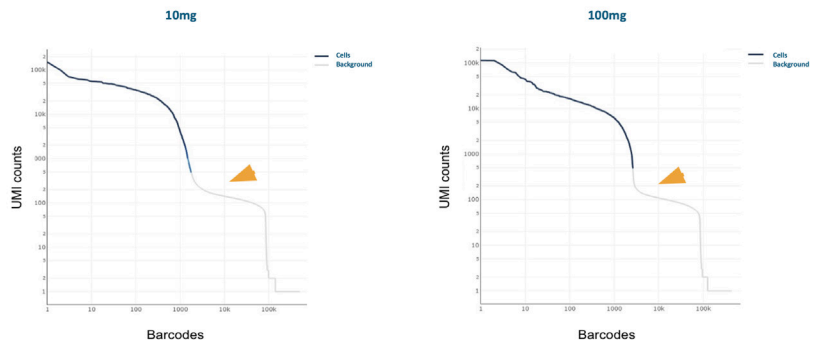


(Figure A) When compared to a competitor's kit, a more consistent number of nuclei are detected relative to the estimated number of nuclei targeted for sequencing. The importance of accurate, high-quality inputs can be seen by an increase in the mean reads per nuclei (Figure B), and reduced number of data points removed due to high mitochondrial reads (Figure C).

## Consistent Results

Levitation Technology empowers researchers to achieve high-quality sequencing results necessary for scientific interpretation.

- Optimized for 10mg-100mg of tissue
- Provides flexibility and access to limited samples
- Reduces user-to-user sample processing variability

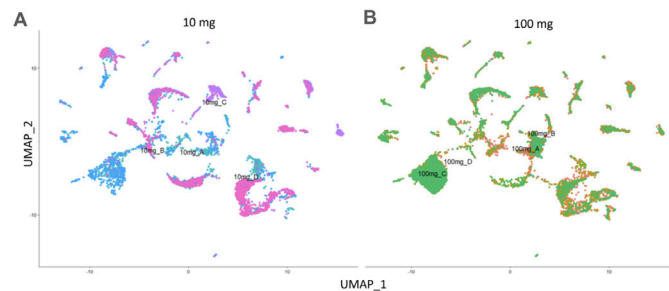


Example knee plots from 10mg (n=4) and 100mg (n=4) samples of mouse brain, processed by different end-users, demonstrating consistent, reproducible sequencing results.

## Reproducible Quality

The LeviPrep Nuclei Kit is a reliable method that produces reproducible and consistent results with samples of varying size and cellular composition.

- Retain cell/tissue subpopulations
- Obtain similar results with less sample
- Increase sample potential for additional analysis



UMAPs drawn comparing the same samples showing sample similarity and retention of cell subpopulations.

## Consistent and Gentle Nuclei Enrichment on the LeviCell Platform

The LeviPrep Nuclei Kit provides reagents and consumables for the complete nuclei extraction and enrichment workflow. Overcome technological limitations of the past and open the door to new discoveries with Levitation Technology.

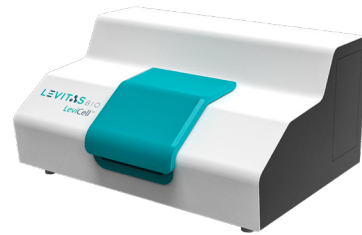
### LeviPrep Nuclei Kit

With the LeviPrep Nuclei Kit, researchers can benefit from an alternative approach to existing, sub-optimal extraction and enrichment methods. This semi-automated process simplifies variable protocols and reduces end-user inconsistencies. Unlike other approaches, it is now possible to generate high-quality nuclei for sensitive downstream applications in a gentle and label-free manner.



### LeviCell Platform

The LeviCell product family is powered by revolutionary Levitation Technology™ found in the LeviCell 1.0 and EOS systems. The LeviCell platform delivers customer-proven, best-in-class cell and nuclei enrichment, providing more of the benefits researchers need.



Part Number	Product Description
<b>Kit</b>	
1005050	LeviPrep Nuclei Kit
<b>Instruments</b>	
1000001	LeviCell 1.0 w/ 1 year warranty
1000021	LeviCell EOS System w/ 1 year warranty

Part Number	Product Description
<b>Consumables</b>	
1002010	LeviCell Cartridge S2.3 (10 pack)
1002012	LeviCell Cartridge S2.3, sterile (10 pack)
1002101	LeviCell EOS-4 Cartridge (10 pack)
1002102	LeviCell EOS-4 Cartridge, sterile (10 pack)
<b>Reagents</b>	
1003001	Levitation Agent (10 Reaction Kit)
1003002	Levitation Agent (40 Reaction Kit)

### Contact Us

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