



**EzerSonic**<sup>®</sup>

ENABLE BREAKTHROUGHS

Services | Instruments | Partnerships

# EzerSonic<sup>®</sup> SoniEV<sup>™</sup> Isolation Platform Case Study

## 11/2025

[Collaboration@EzerSonic.com](mailto:Collaboration@EzerSonic.com)

[EzerSonic.com](http://EzerSonic.com)



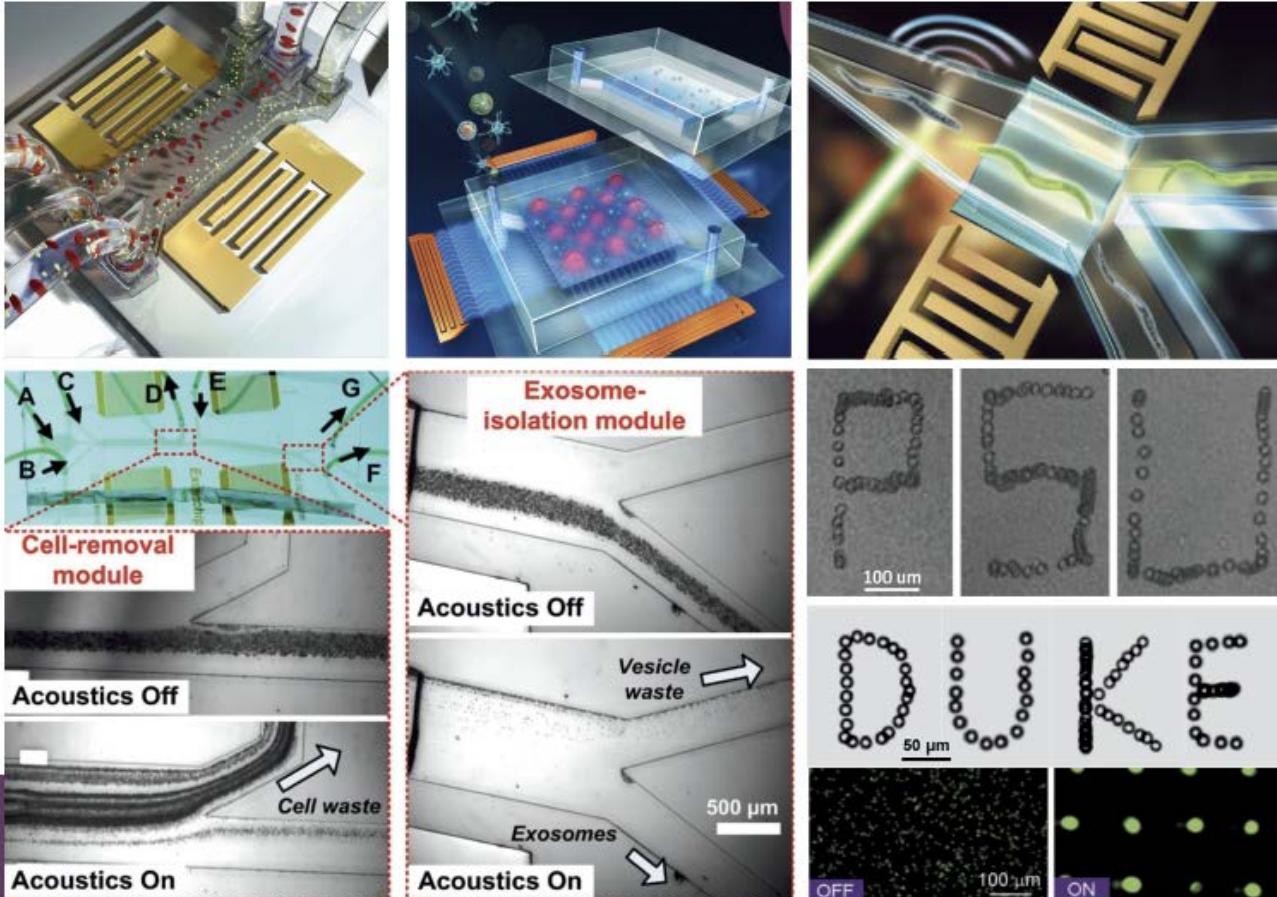
# ENABLE BREAKTHROUGHS

Services | Instruments | Partnerships

Developed with

Duke

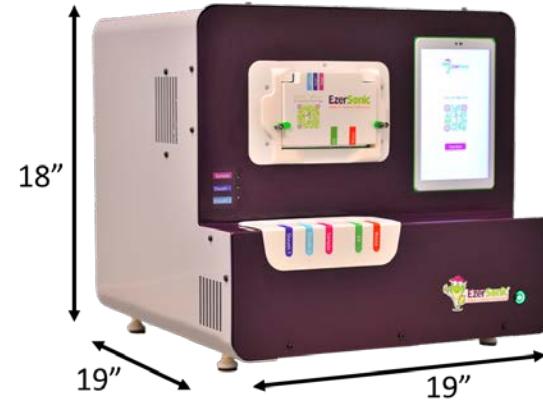
ACOUSTOFLUIDICS LAB



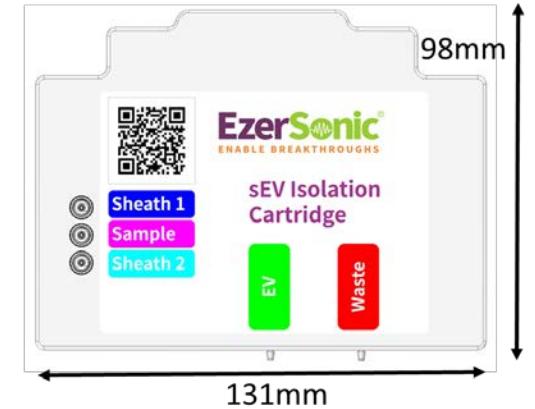
## SONIEV™ AFS sEV ISOLATION

The SoniEV™ Isolation platform is an **automated, AFS-based system** engineered to isolate sEVs, cells, and other particles with **superior results**.

SoniEV™ Isolation Platform



sEV Isolation Cartridge



## INTRODUCING CELL REMOVAL CARTRIDGE



# SUPERIOR CAPABILITIES

Researched, Developed, and Manufactured

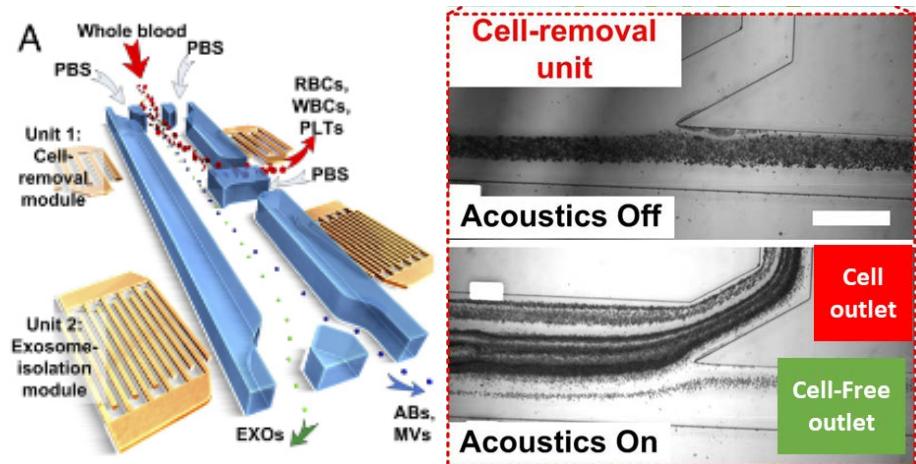


- ✓ Exceptional Isolation Result
- ✓ Maintain Sample Integrity
- ✓ Contact & Label Free
- ✓ Flexible Volume: from 10 ul
- ✓ Minimum Dilution & Pre-processing
- ✓ Automation & Unmatched Reproducibility
- ✓ Effortless Upgrades

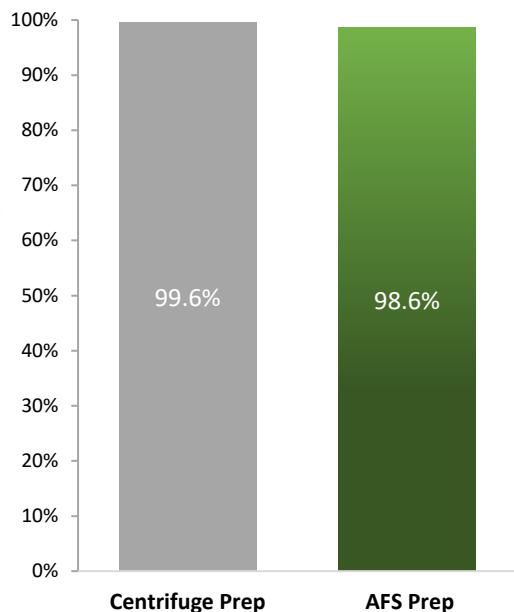
**Scan for  
Info & Demo!**



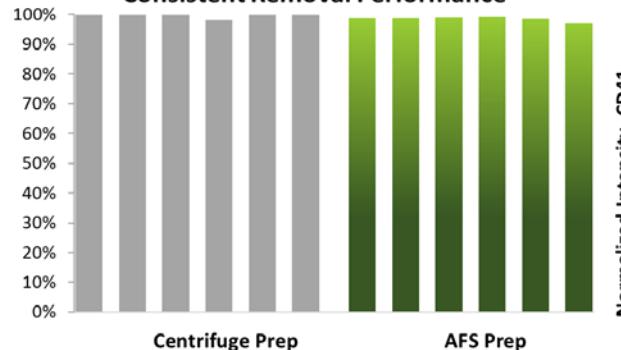
# Beyond EV Capability: AFS Cell Removal vs. Centrifuge Preparation PPP from Whole Blood



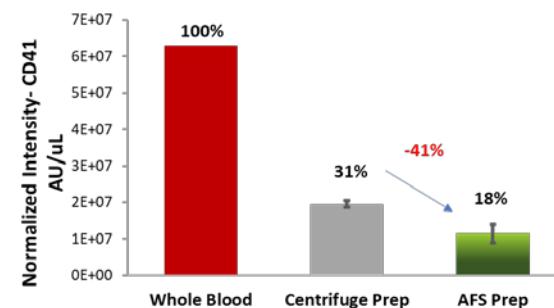
**Platelet, RBC and WBC Removal**



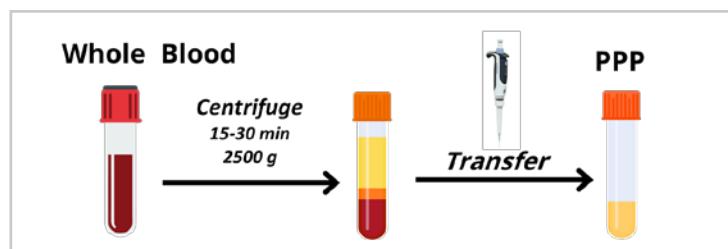
**Consistent Removal Performance**



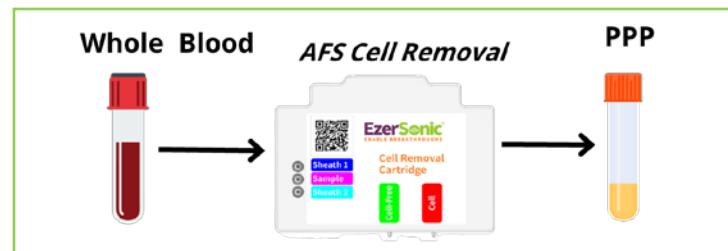
**AFS Prep plasma removed 40% more platelet than Centrifuge Prep**



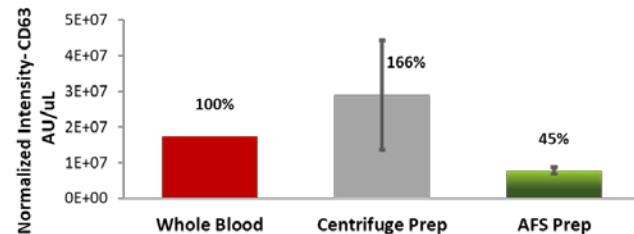
**Centrifuge Plasma Preparation**



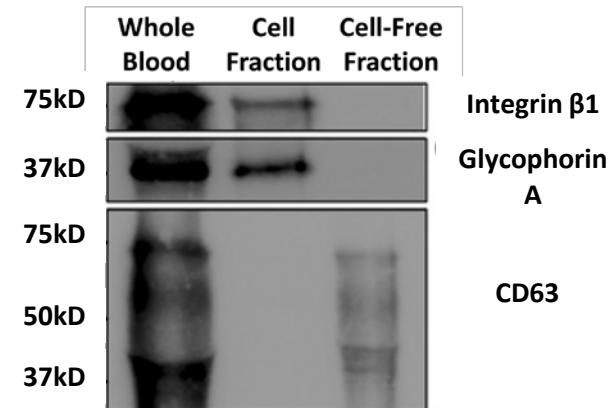
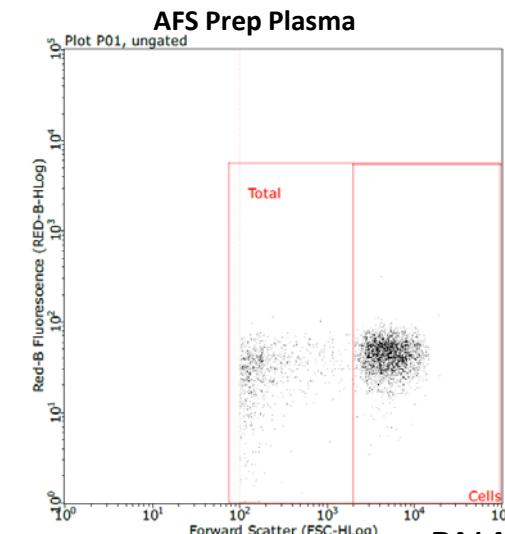
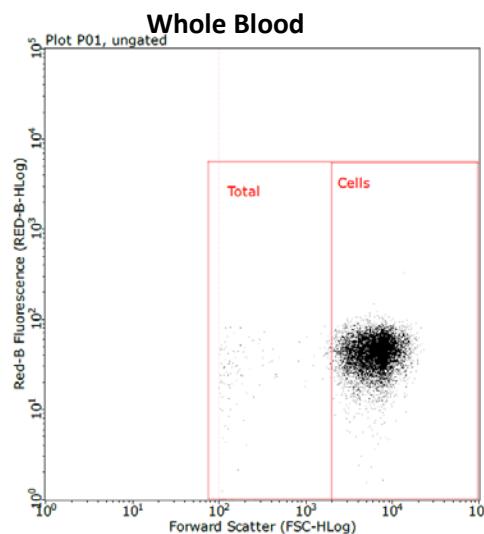
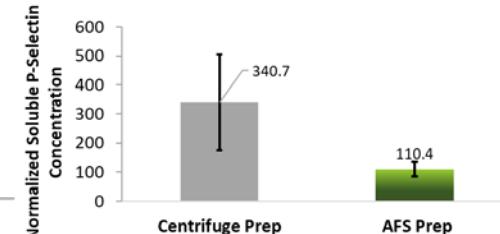
**AFS Cell Removal Plasma Preparation from as little as 10µL**



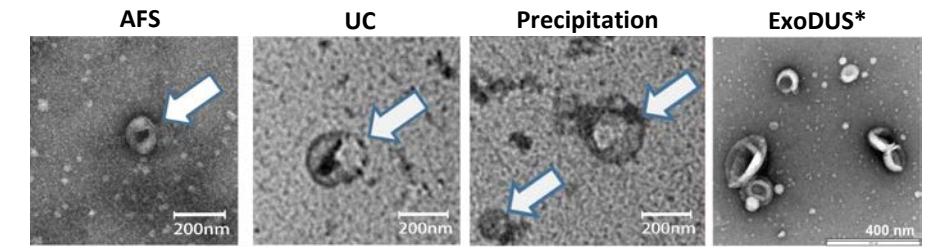
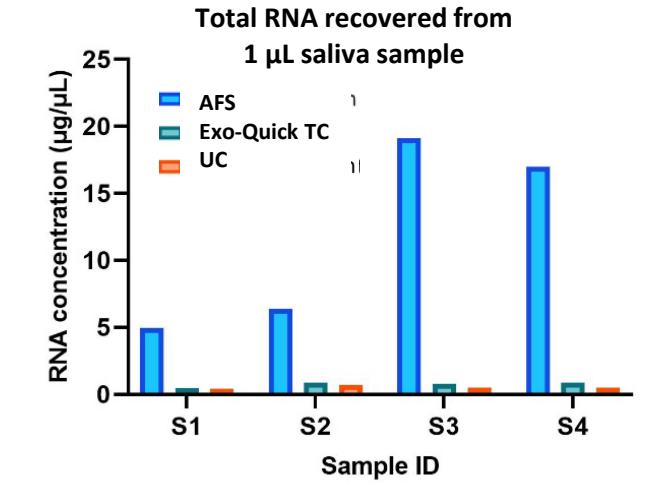
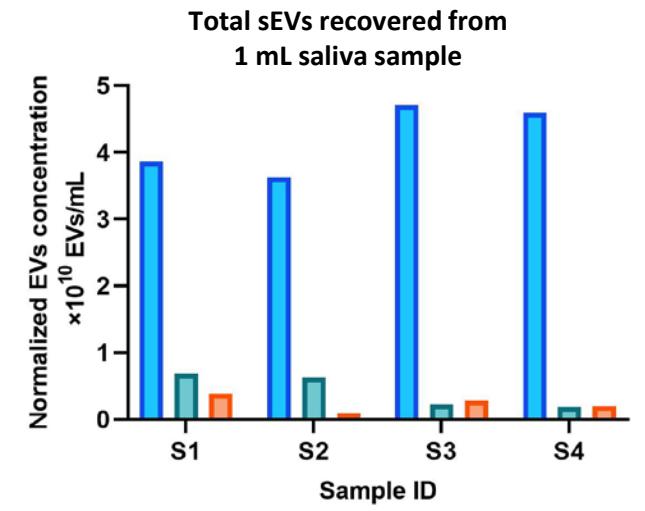
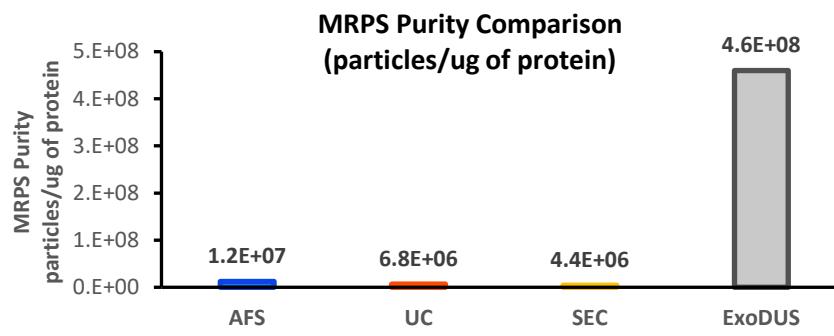
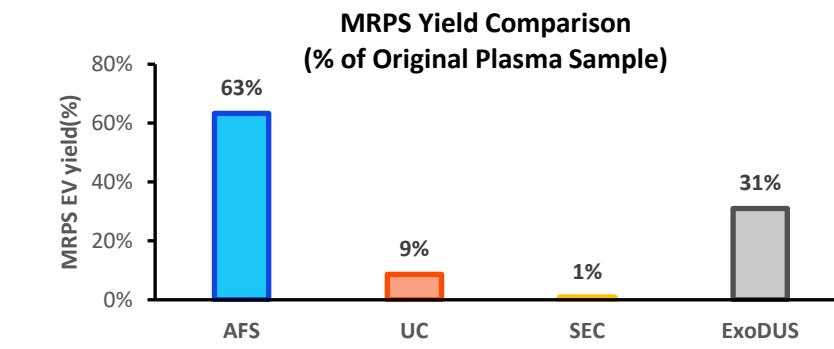
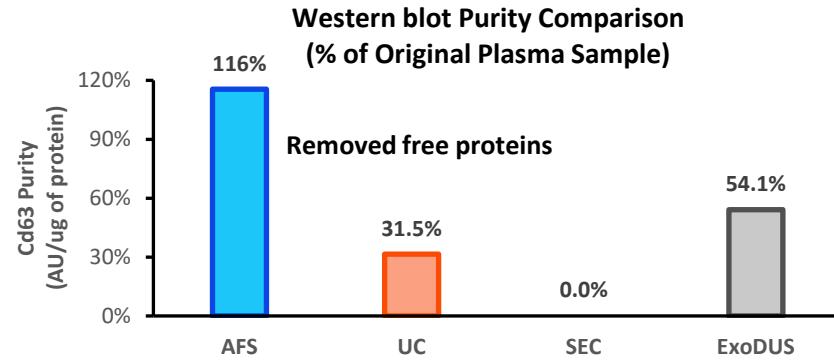
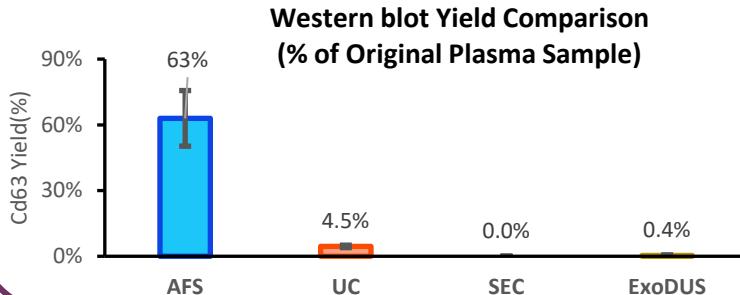
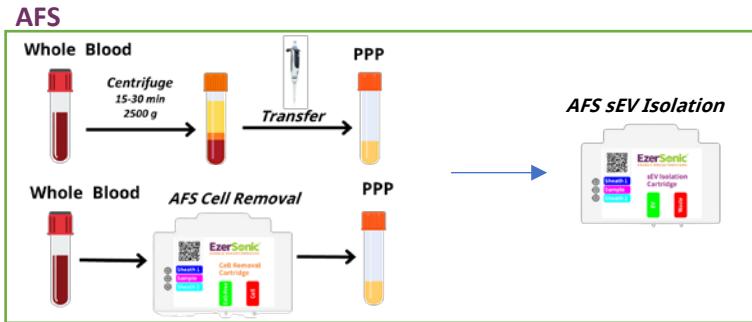
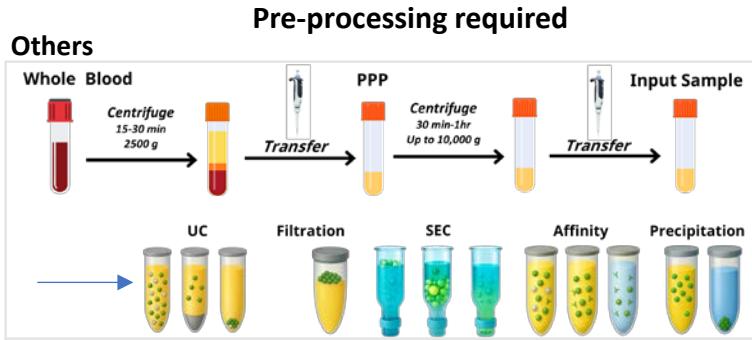
**Centrifuge Prep plasma has 4X CD63 than AFS Prep (1.7X Original Sample)**



**Centrifuge Prep plasma has 3X P-Selectin (platelet activation) than AFS Prep**



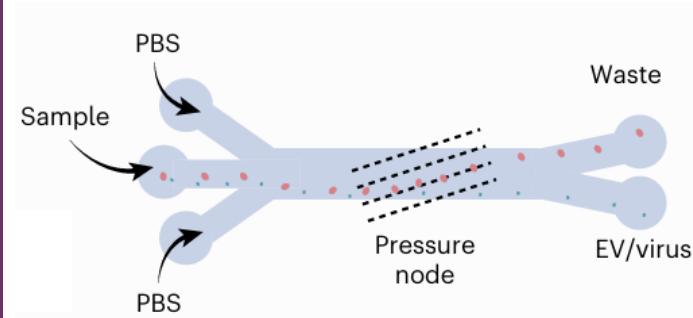
# AFS Vs. Conventional sEV Isolation Methods: Saliva and Plasma



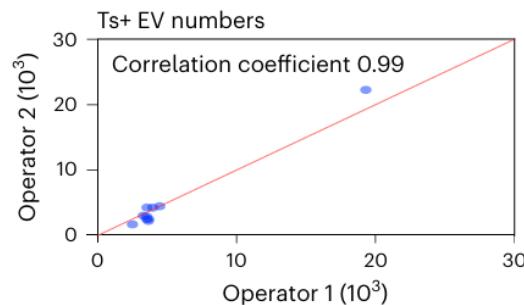
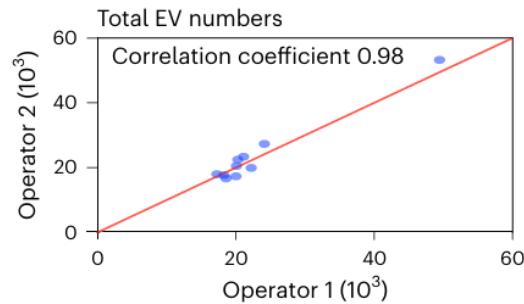
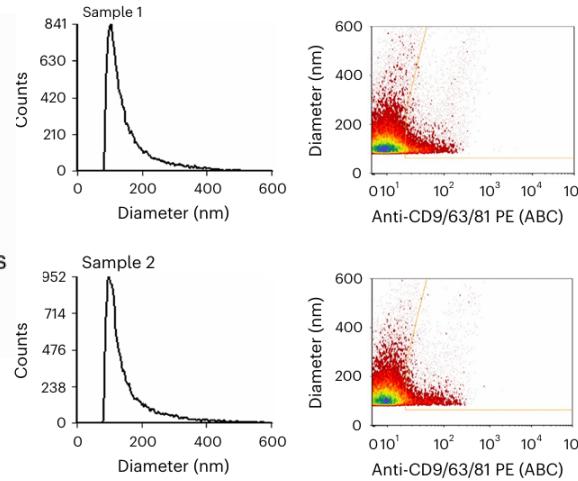
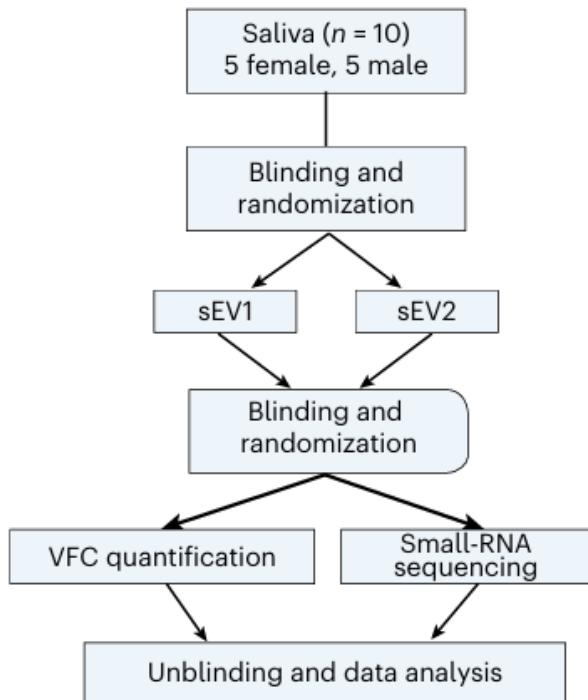
\*from ExoDUS product brochure

Collaborated with Duke, UCLA, UCSD & UF

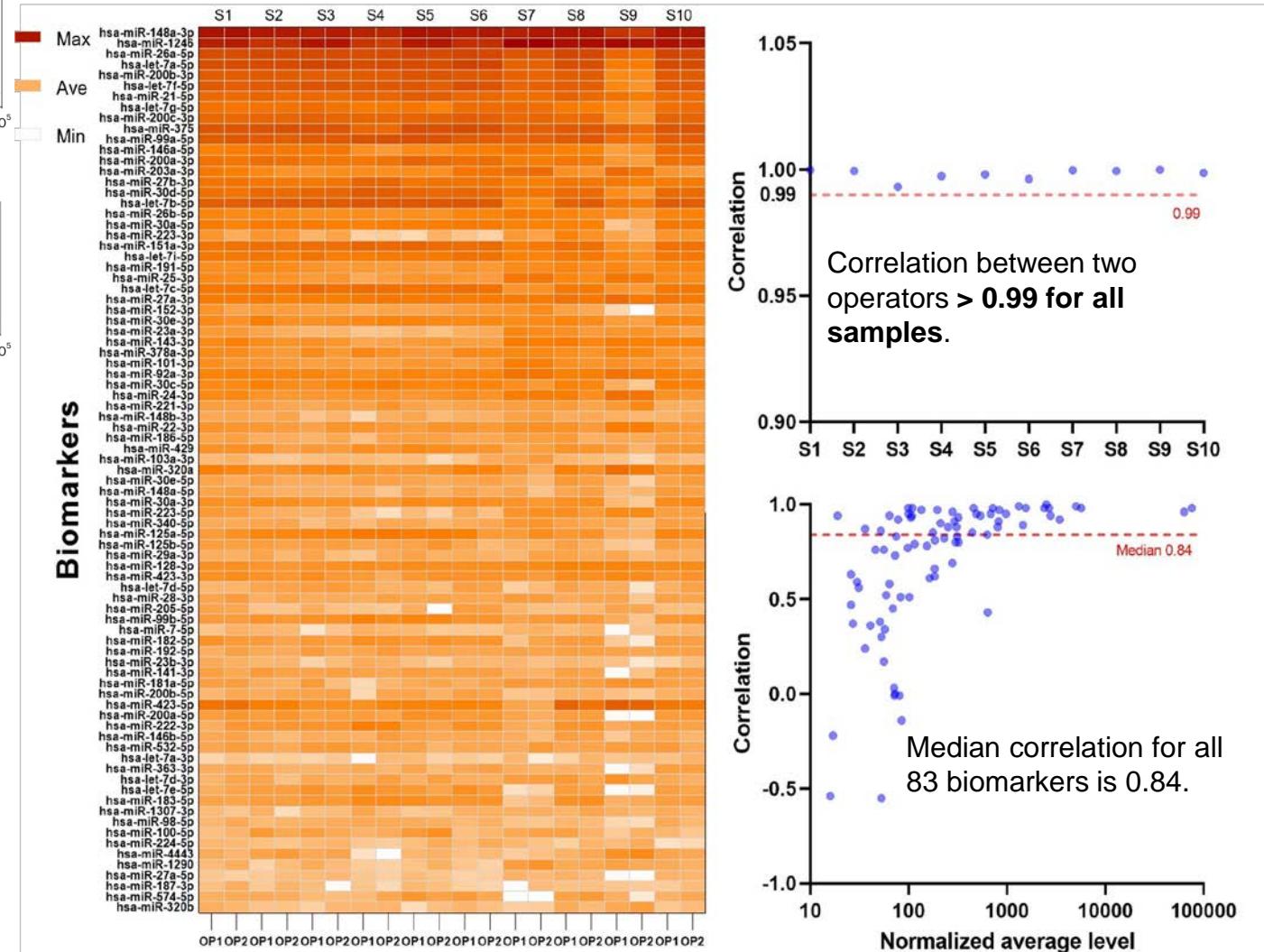
# Unmatched Repeatability & Reproducibility: Validation using Saliva Sample



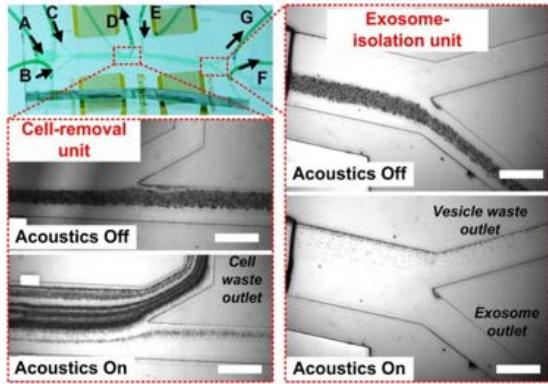
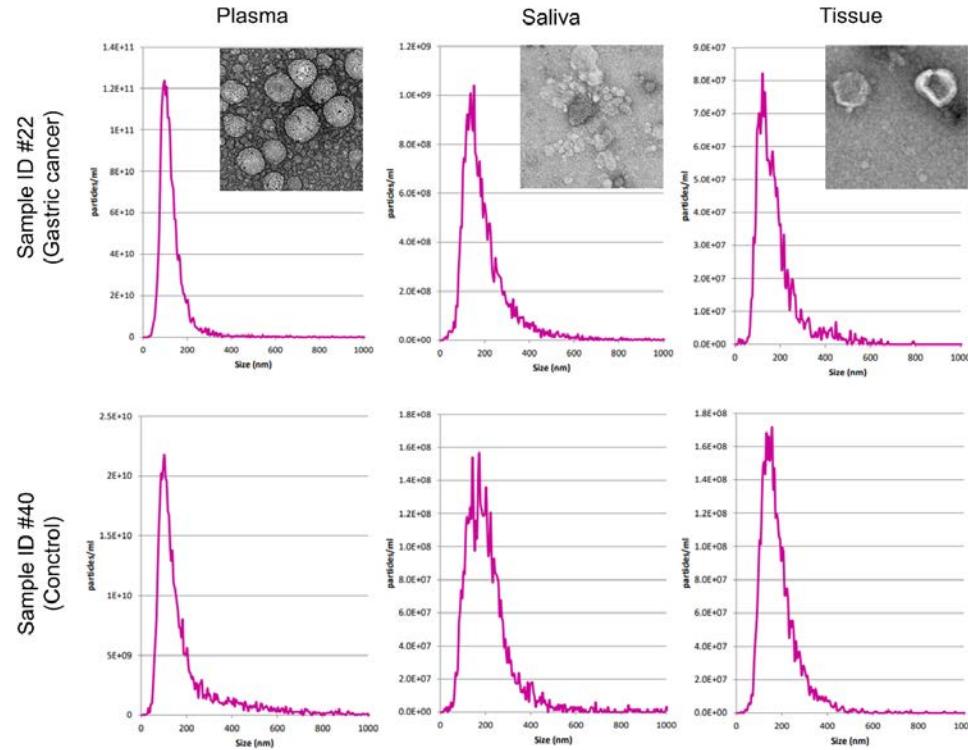
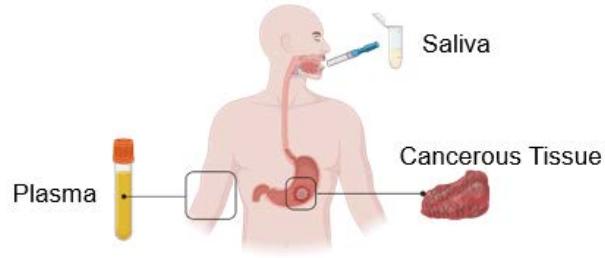
Flow of the R&R validation



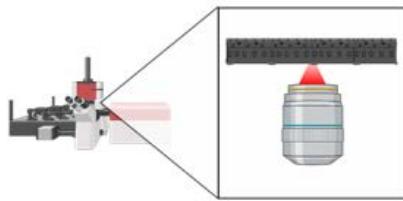
## Small RNA sequencing



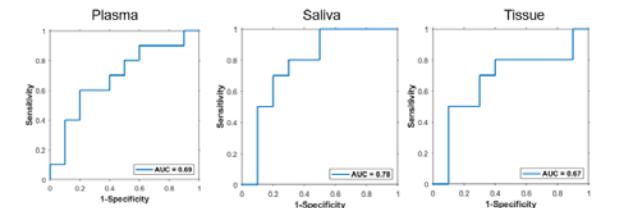
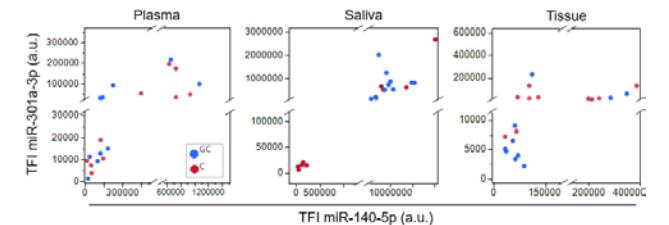
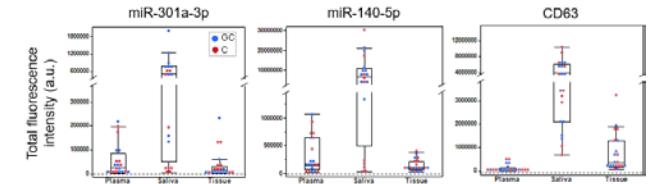
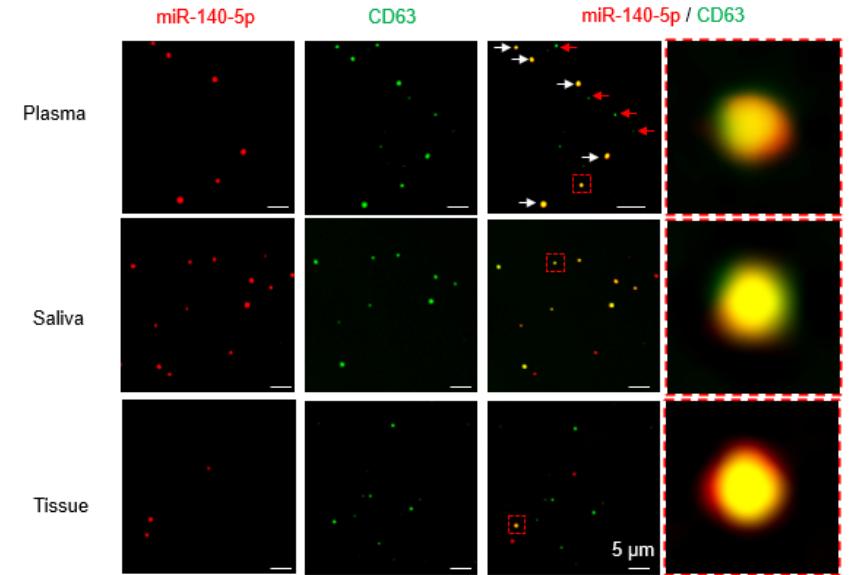
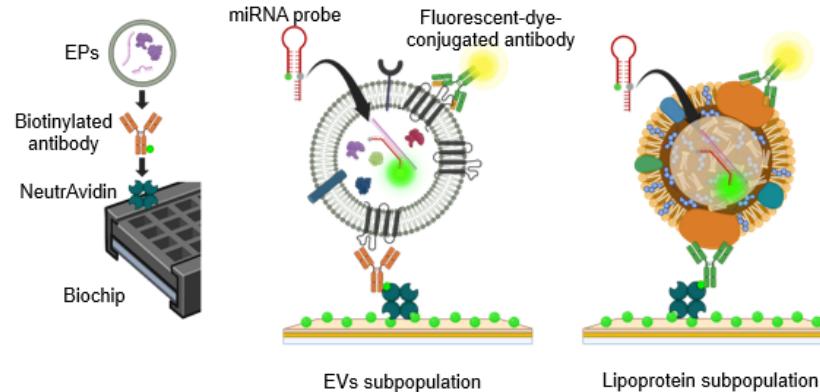
# Downstream-Ready: Exosome miRNA Detection for Gastric Cancer



Automated liquid handling

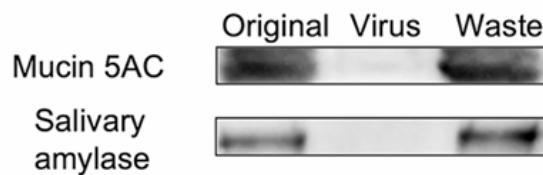
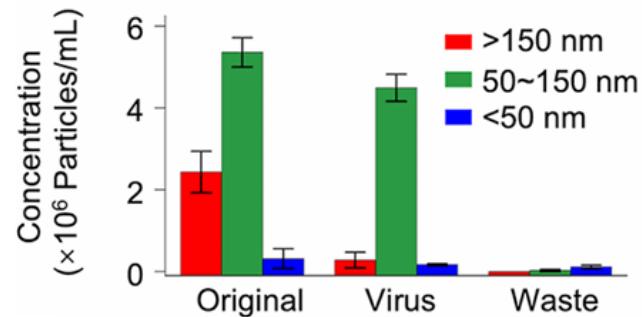
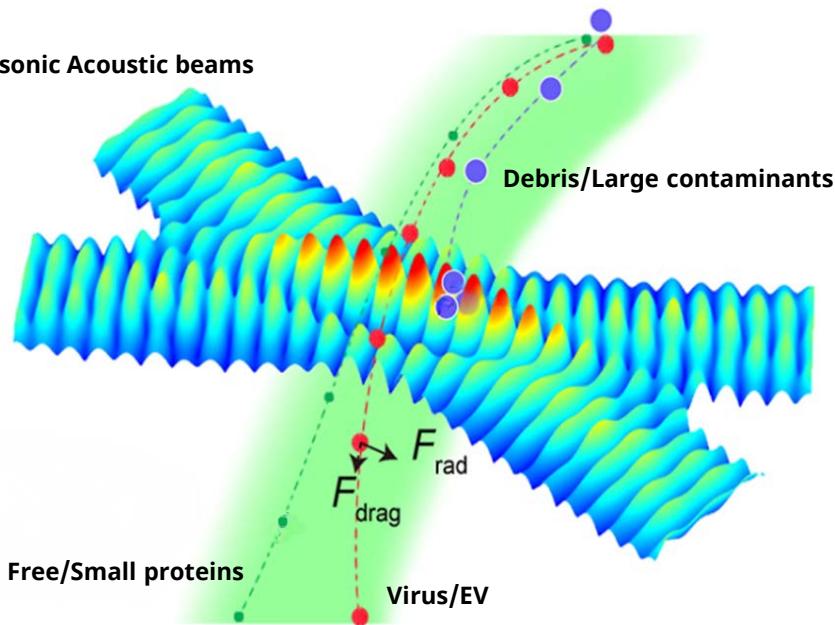


Automated TIRFM imaging

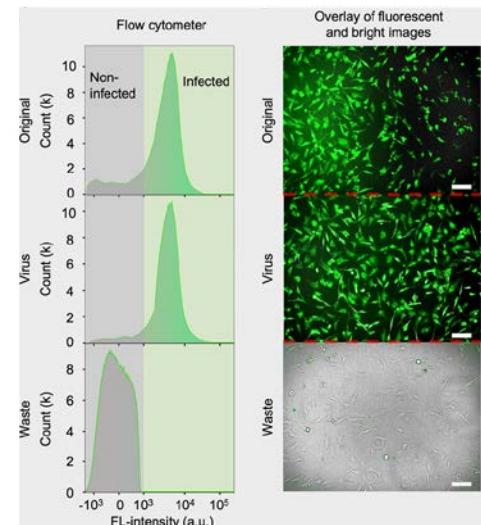
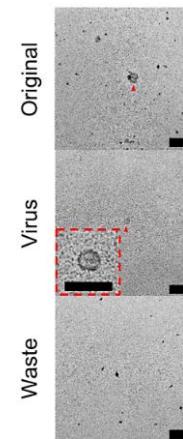
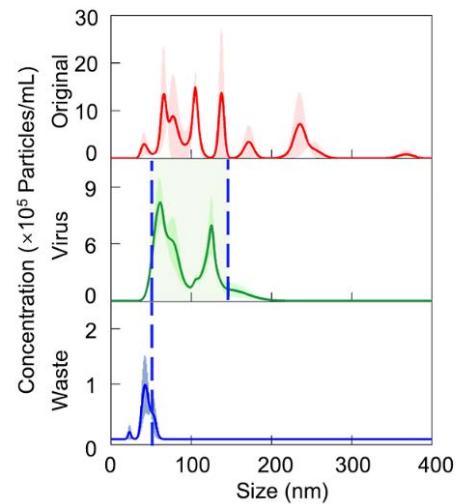
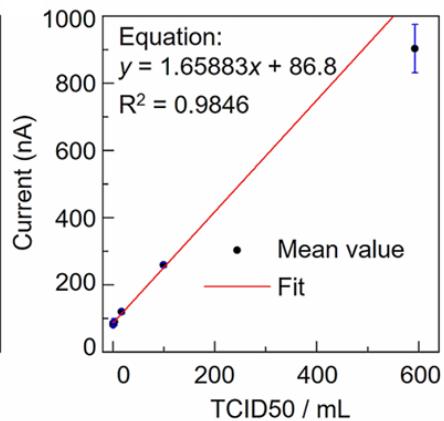
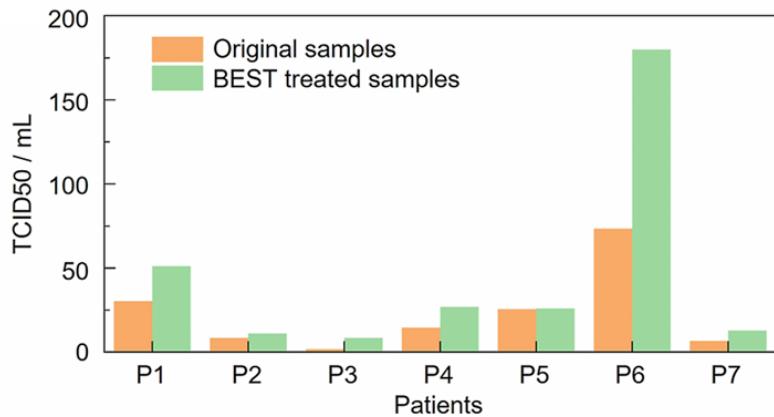
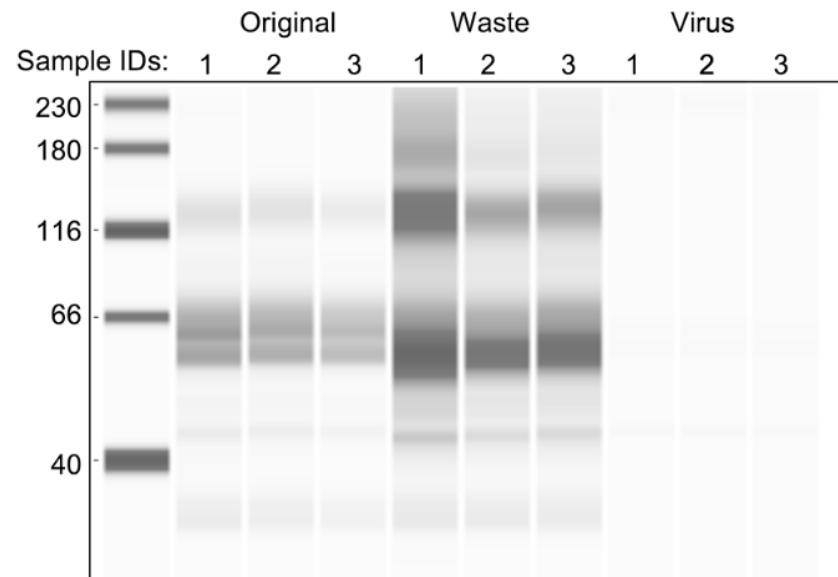


# Beyond EV Capability: Virus Isolation

Ultrasonic Acoustic beams



Total Protein analysis



# EzerSonic® SoniEV™ Isolation Platform Specs

<b>Isolation Principle</b>	Size and density based Acoustofluidic Separation (AFS). AFS applies ultrasonic standing surface acoustic waves (SSAW) in a microchannel to separate micro and nanoparticles with high throughput and precision.
<b>Sample Types</b>	Whole Blood, plasma, saliva, urine, mucus, cell culture media, tissue culture, CSF, etc.
<b>Temperature of sample</b>	4 °C
<b>Sample Volumes</b>	> 10µL
<b>Processing Speed</b>	Max speed 11 mL/hr, next gen 55 mL/hr coming soon
<b>Display</b>	8" Capacitive Touchscreen
<b>Dimensions</b>	18" x 19" x 19" (H x W x D)
<b>Connectivity</b>	Wifi
<b>Net Weight</b>	40 Kg (88 lbs)
<b>Max Power</b>	750 W @ 110-220 V
<b>Data Access</b>	through APP and online portal

# EzerSonic® SoniEV™ Solution is Available Now

EzerSonic® SoniEV™ sEV Isolation Service streamlines complex scientific endeavors into a clear and concise workflow, ensuring client engagement and success from start to finish, as outlined in these four steps:

1

## Customer Inquiry

Receive and evaluate the project request

2

## Project Scope

Detail and define project parameters in a collaborative meeting.

3

## Pilot Execution

Perform a trial run to validate and refine methodologies.

4

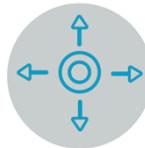
## Delivery & Feedback

Provide the final product and gather customer feedback to ensure satisfaction.

Sign Up for a Free Trial of Our Cutting-Edge Service for Unmatched Research Advancements.

**Service Ready Immediately!**

Now Accepting Instrument Pre-Orders.  
**Shipping Begins January 2026.**



## Immediate Accessibility

No need to invest in expensive equipment



## Optional EV Characterization

Optional NTA, MRPS, Western Blot services



## Tailored Solutions

Customized design with pilot run to meet your requirements



## Simplified Workflows

Simply ship your samples  
Consistent, reliable results



## Satisfaction Guaranteed

Full refund if not completely satisfied



## Free Trial

Experience with no risk for qualified collaborators