

How Centrifuge-Free Liquid Plasma Collection Can Reshape Point-of-Care and At-Home Testing

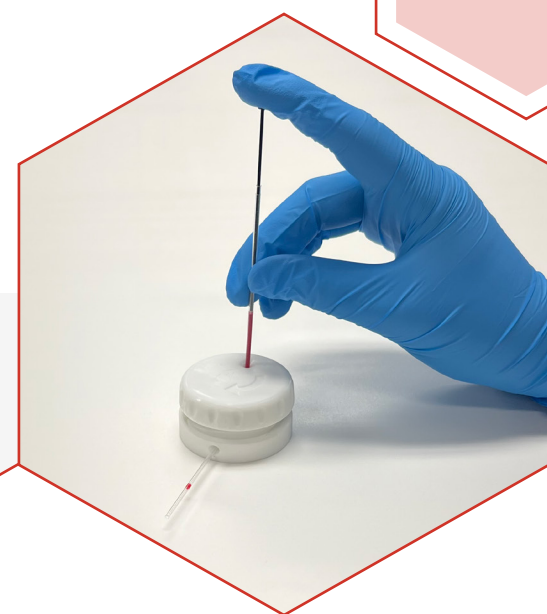
Overview

Liquid blood plasma plays a key role in the diagnostic paradigm, but traditional collection methods require centrifugation and specialized resources, limiting plasma-based testing to centralized lab settings. As point-of-care (POC) and at-home diagnostics continue to evolve with a focus on speed and simplicity, Drummond Scientific's centrifuge-free solution offers a path forward—to bring liquid plasma-based diagnostics to every care setting.

THE BARRIER

Key Barriers to Liquid Plasma-Based Diagnostics

- 1 Resource Gaps**
Liquid plasma separation and collection typically depends on centrifuges and lab facilities, limiting availability in decentralized settings.
- 2 Workflow Delays**
Traditional methods create bottlenecks in care delivery, from sample transport to lab processing and result turnaround.
- 3 Patient Barriers**
Phlebotomy-based collection can be inaccessible or impractical for patients in remote or home settings.
- 4 Development Friction**
Diagnostic innovators face limitations in designing scalable, user-friendly liquid plasma-based tests for non-clinical use.



THE BREAKTHROUGH

Centrifuge-Free, Liquid Plasma Separation and Collection

Drummond Scientific's solution to solve this challenge is a groundbreaking POC, centrifuge-free, liquid plasma separation and sample collection technology. Developed in the lab of Tufts University professor Charlie Mace, and licensed from Tufts by Drummond, this innovation uses a filtration membrane to enable liquid plasma separation, paving the way for faster, more accessible diagnostics.

Where Simple Liquid Plasma Separation Technology Makes a Difference



Remote and Rural Clinics

In low-resource settings without lab infrastructure, this device enables fast, reliable liquid plasma collection—no centrifuge, vials, or phlebotomy required—supporting timely diagnostics closer to the point of care.



At-Home Testing

Patients can self-collect a liquid plasma sample from a simple fingerstick and apply it to an at-home or remote point-of-care (RPOC) diagnostics device, expanding access for those with limited mobility or far from clinical sites.

How it Works

Users apply blood collected from a fingerstick, and the device passively separates components, capturing clear liquid plasma in a metered capillary, which is available for immediate use.



Unlocking the Future of Diagnostics

Simplifying liquid plasma collection opens new pathways for developers to design decentralized, patient-friendly tests that utilize liquid plasma without the need for a lab, empowering innovation across the diagnostic landscape.

We Don't Just Build Products, We Build Partnerships

Bringing breakthrough innovations like centrifuge-free liquid plasma technology to life takes more than manufacturing—it requires a venture manufacturing mindset. At Drummond, we go beyond production by investing in true collaboration with our partners. Specializing in life science diagnostics and sample collection devices, we combine deep expertise in high-throughput, custom automated manufacturing with the agility and infrastructure needed to help early-stage ideas scale into real-world impact—quickly, reliably, and at every stage of growth.

Whether you'd like more information on the liquid plasma separator or you're building the next generation of diagnostic solutions, we're here to help make it happen. Contact Drummond to learn more at info@drummondsci.com.



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