Pioneering Picodroplet Single Cell Analysis & Isolation Sphere Fluidics Solutions



Unlock the Power of Picodroplets

Sphere Fluidics offer microfluidic picodroplet technology platforms for single cell isolation & analysis, enabling you to isolate the most valuable cells with unparalleled ease & speed.



Droplet microfluidic biochips master fluid control

Instrument software controls instruments, assays, workflows & analyses data

Explore the platforms







You have a workflow We have a way to get you there

Why Sphere Fluidics?

- Picodroplet microfluidic technology experts
- Automated efficiency with integrated platforms
- Future proof unmatched picodroplet technology
- Platforms built on robust evidence from influential leaders
- Collaboration partner excellence



\(02 9575 7512 \)

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Streamline & Automate

Antibody Discovery & Cell Line Development Workflows with Cyto-Mine®

Fully automated rapid analysis, selective screening, sorting imaging & dispensing into microtitre plates or individual wells, all while preserving optimal cell viability & enabling detailed analysis of secreted proteins or biomolecules.

Book a demo

- Encapsulate up to 200,000 single cells or up to 40 million cells in mini-pools in one run.
- Targeted discovery assesses cell line productivity or identifies & isolates rare cells of interest.
- Image each individual cell for assurance of monoclonality.
- The interest of the state of th
- Cyto-Mine® 21 CFR Part 11 & GLP compliant with Animal Free reagents. Compatible for use in BSCII.



Applications

Antibody discovery

Cell engineering

Cell line development

Cell therapy

Synthetic biology

Consumables & Reagents



Cyto-Cartridges®





rt® Prohes Cyto



Cyto-Surf® A



Cyto-Surf® B

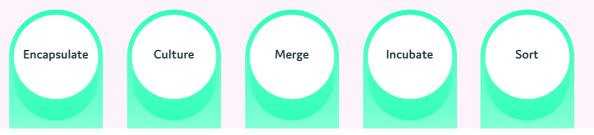


Empower early stage
research with picodroplet
technology using
Pico-Mine®

Book a demo

Buy Now Save with Choice of 1 Free Reagent

- © Pico-Mine® semi-automated platform for earlier stage research with picodroplet technology.
- Uncover rare biological variants in large cell populations, boosting throughput & reducing cost.
- 🔼 Each picodroplet encapsulates a cell. These droplets can then be used to build complex workflows.
- Novel functions such as splitting & liquid injection.
- Duild custom workflows easily, user friendly with no microfluidics expertise required.



Pico-Mine®Applications

Strain engineering

Drug resistance

Cell engineering

Cell therapy

Antibody Discovery

Synthetic biology

Consumables & Reagents



Pico-Break™ Emulsion Breaking Solution



Pico-Glide™ 1



Pico-Surf® (2% (w/w) in Novec[™] 7500)



Pico-Wave[™] 7500



Pico-Surf® (5% (w/w) in Novec™ 7500)



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Get Application and Technology Support Now

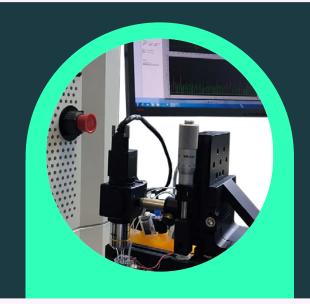


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■ sales@capellascience.com.au

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Get Application and Technology Support Now



Spectra-Mine® the World's **ONLY Platform combining High Throughput Picodroplet Screening** with Real-Time Mass Spectrometry Measurement & Selection

Fully automated rapid analysis, selective screening, sorting imaging & dispensing into microtitre plates or individual wells, all while preserving optimal cell viability & enabling detailed analysis of secreted proteins or biomolecules.

Book a demo

- Spectra-Mine® applies mass spectrometry to picodroplets for a label free method, automatically identifying & selecting valuable cells.
- Customised workflows for high-throughput, cost effective & accurate screening without fluorescence assays.
- Achieve label free, high throughput target molecule measurement using mass spectrometry.
- Successful recovery of viable cells of interest.
- Tailored workflows to meet user needs through PaaS Sphere Fluidics service offering.

Encapsulate







Let's collaborate to customise your workflow & deliver screen results!

Spectra-Mine®Applications

Strain engineering

Bioprocessing

Interaction studies

Synthetic biology

Picodroplets + Mass Spectrometry = Results

Picodroplets encapsulate single cells, enabling throughput screwithout come delicate sar

Laber of the street of the str Spectra-Mine® enhances high throughput picodroplet screening with label-free selection using direct mass spectrometry, eliminating the need for fluorescence assays

Setrie Celle alive Preserve low volume or single cell samples in picodroplets during measurement, ensuring live sorting afterwards with electric field based picodroplet technology.

Sathfoligh PaaS Platform as a Service offering. Match your workflow with adjustible daughter droplet sizes, fluorescence, optical measurements & optimised spectrum analysis algorithms.



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