

Akura[™] Flow Microphysiological System

Akura[™] Flow is a multi-tissue, microfluidic assay format engineered for biolology insight, and available exclusively for 3D InSight[™] Microtissues. A highly flexible microphysiological system (MPS), Akura[™] Flow provides experimental continuity between single- and multi-tissue testing applications, enabling seamless integration and optimal utilization of the InSphero portfolio of standardized 3D models. Complete systems include pre-qualified 3D InSight[™] Microtissues, media, assays, and a tilting-based flow control device.

- Minimize cell, medium, and compound use in a miniaturized 10-microtissue configuration that increases cell to media volume ratio up to 10-fold
- Achieve maximum physiological complexity while minimizing operational complexity in an automation-compatible tubeless, tilting-based medium perfusion system that interconnects 3D InSight™ assay-ready models
- Compare numerous conditions in parallel on one plate that enables throughputcompatible testing in a scalable microphysiological system with virtually unlimited statistical replicates
- Perform diverse experimental endpoints, from cell-based and biochemical assays to on-chip HCI, with flexible liquid sampling and non-disruptive microtissue retrieval

Sample MPS Applications	Configuration
Flexible design ideal for a broad range of pre-clinical applications	Mix and match microtissues
Low clearance predictions assays set up to multiply function of a single microtissue type	Liver
Bioactivation of prodrugs with 3D InSight™ liver and tumor model co-cultures	Liver Tumor
Metabolic disease modeling with 3D InSight™ Human Liver and Islet co-cultures	Liver Islet
Metabolic competence assessment with 3D InSight™ Human Liver in co-culture with your model of choice	Liver ?

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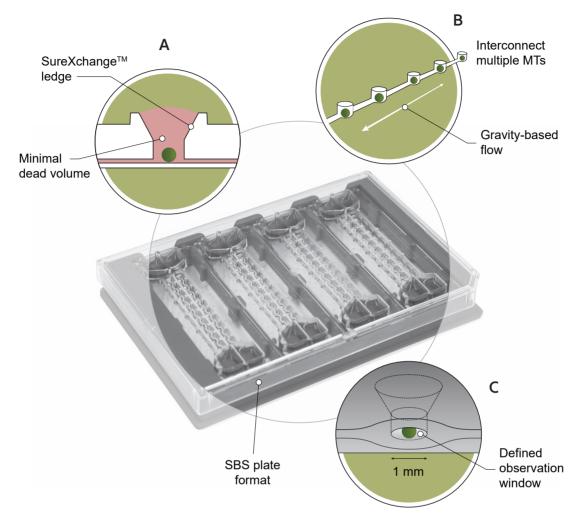


Become an Akura[™] Flow Development Partner and help us test new applications for this next-generation discovery platform.

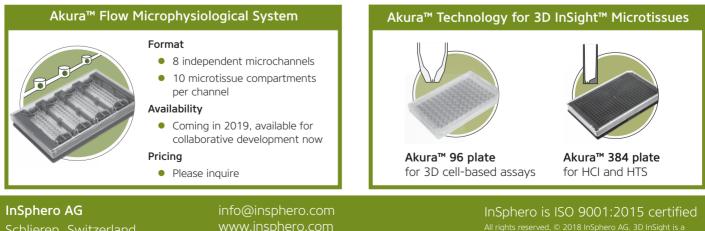
Akura[™] Flow: Engineered for 3D InSight

Akura[™] Flow microfluidic multi-tissue platform

Akura™ Flow makes microfluidic technology accessible to bench scientists who understand the biology they need to interrogate. It enables culturing of InSphero 3D InSight™ Microtissues under physiological flow conditions, with the flexibility to interconnect and culture different types of microtissues and enable multi-tissue configurations.



Increase physiological complexity while maintaining experimental simplicity. A. Simplify reliable and parallelized microtissue loading and retrieval with our unique SureXchange™ funnel design, and straightforward media sampling and exchange in an SBS standard plate format. **B.** Improve tissue-specific in vitro functionality in optimized microtissue flow chambers and interconnecting microchannels for controlled dynamic flow, providing efficient nutrient and oxygen supply while enabling paracrine/endocrine intertissue communication. C. Eliminate compound absorption using a PDMS-free, full-polystyrene platform and our proven, longterm stable ULA coating.



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