

Low Attachment 3D Assay Flowchips

Sophisticated Microfluidics 3D Cell Culture

Low Attachment 3D Assay Flowchip consumables have been designed for experiments with 3D cell models such as organoids, spheroids and 3D tumor models to use with our Pu-MA Systems.

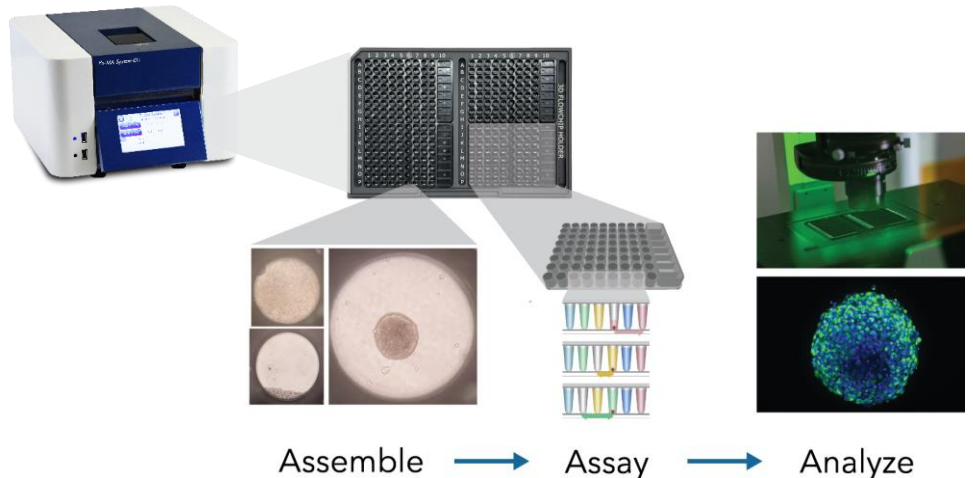
Using our proprietary microfluidics combined with ISurCell™ ultra-low attachment coating technology from ISurTec®, these flowchips enable applications such as biomarker detection by immuno-fluorescence staining, drug treatment assays, *in situ* supernatant sampling and co-culture assays with immune cells.



ISurCell™ ULA coating by ISurTec®

Simplified *In Situ* Workflow

- **Assemble** your 3D cell models
- **Assay** within the same flowchip
- **Analyze** sample within flowchip



Automated Bench-top Assays

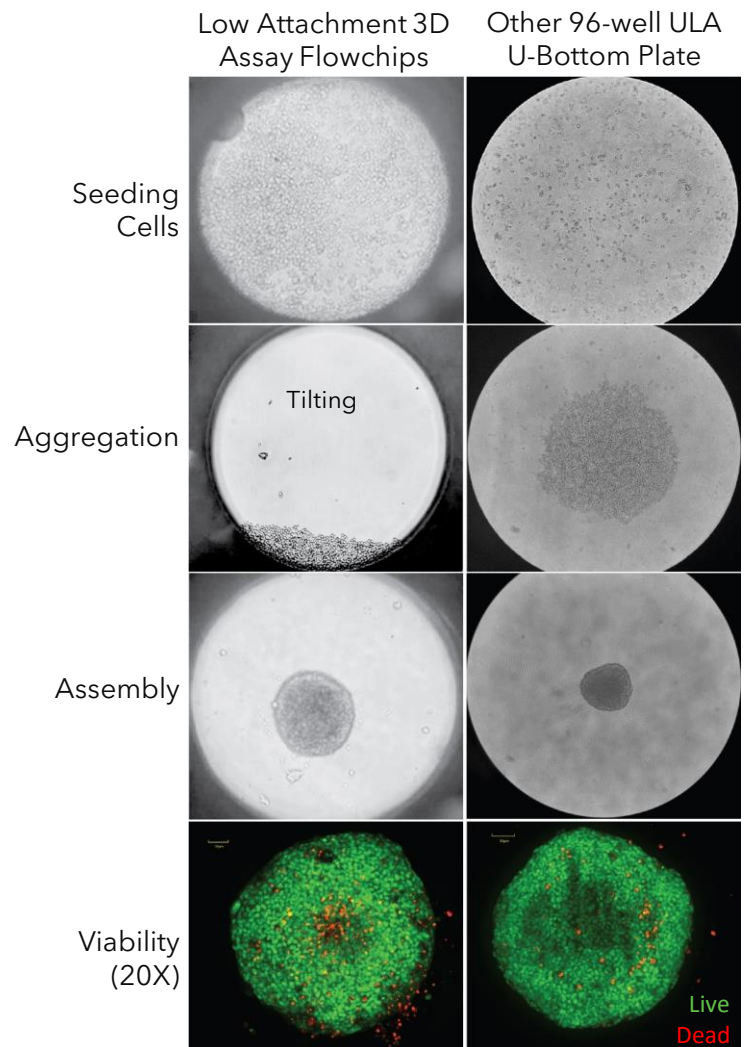
The Pu-MA System EC streamlines a complete workflow to automate assays with minimal user handling. Culture your 3D cell models in the Low Attachment 3D Assay flowchips, add media and reagents, place the flowchips holder into the system, select the assay protocol and press PLAY. The system is touchscreen driven with a user-friendly interface. At the end of the assay the samples are ready for analysis such as using high-content confocal or fluorescence imagers.



Product Specifications

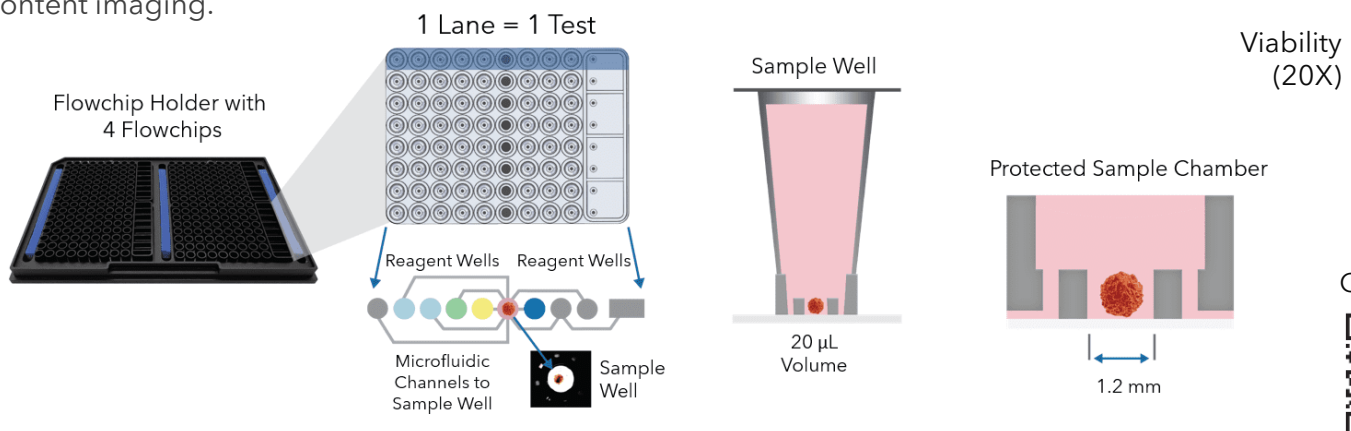
Performance	8–32 Samples per run (1–4 flowchips)
	1–5 days assay time
	> 95% fluid exchange
	CVs of <10% fluid transfer reproducibility
Material	Wells: black-walled COC
	Bottom: optically clear COC
Surface	ULA Cell Culture Endotoxin-Free
Dimensions	384-well Spacing (SLAS/ANSI)
	Holder = 127.75 x 85.5 x 8.7 mm
Usage	4°C – 37°C temperature
	15–95% (non-condensing) relative humidity
Purpose	3D cell-based assays
Compatibility	Standard Pipettors & tips
	High-Content Imaging Systems
	Standard Plate Readers
Storage	Sealed package at RT for 6 months
	Unsealed package at RT for 7 days

Product Comparison



How it works

The Pu·MA Systems and flowchips use valve-less fluidic switching (VLFS) to precisely control fluid movements. The assays take place in a protected chamber within the well with microfluidic reagent /media exchanges that eliminates temperature and mechanical perturbations of the 3D cell models. Preloaded protocols execute all fluid transfers and incubation steps. Optically clear bottom of flowchips is compatible with high-content imaging.



Contact Us

