

LP Sampler™

Gentle Sampling for Large Particles



The Large Particle Sampler (**LP Sampler™**) module is the only automated sample introduction system designed specifically for gentle handling of large, fragile objects such as

- delicate cells/clusters (stem cell clusters, neurospheres, tumor spheroids)
- viable small multicellular model organisms (nematodes, *Drosophila*, zebrafish larvae)
- beads used as micro-carriers for clonal libraries
- seeds and fragile plant tissue

This large particle autosampler is ideal for objects ranging from 10 to 1500 microns in diameter. It is capable of gently aspirating those samples from multiwell plates or a petri dish and delivering them intact to Union Biometrica's BioSorter® or VAST BioImager™ systems. It has the flexibility to handle a variety of standard or deep well plates including 24, 96 and 384.

The LP Sampler is a high-throughput device. For faster handling, it is capable of delivering one sample while simultaneously aspirating the next for continuous, rapid sample introduction to the BioSorter or VAST BioImager systems for "walk away" operation.

The LP Sampler module works with FlowPilot™, FlowPilot-Pro™ and VAST BioImager software. Customizable scripts allow the operator to accommodate whatever type of organism or particle is being sampled. Scripts can be edited to change the time devoted to flushing, analyzing or other steps based upon need.

The unit has two additional reservoirs which can be utilized for dispensing additional liquids for flushing wells or for addition of reagents in kinetic studies. It also includes an on-board wash and waste station to reduce carryover between samples.



The LP Sampler module can be used with VAST BioImager as well as COPAS FP and BioSorter Large Particle Flow Cytometer systems.