

CARR® Centritech LAB III CARR® Centritech Separation Systems



Key Features

- Automated continuous separation
- High cell viability
- Sterile, disposable separation insert
- No rotating seals
- No cleaning or sterilization required
- Easy process scale-up
- Simple and reproducible operation
- Reduced validation procedures
- Separation and removal of dead cells
- Noise level <62 dBA
- Flow rates ranging from 0.5 to 10.8 liters per hour
- Variable g force up to 253 x g

CARR® Centritech LAB III

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Separation is a fundamental operation of cell culture systems. Clarifying media and recycling cells for perfusion bioreactors, harvesting cells, classifying and washing cells are operations that improved by the use of the unique technology delivered by the PneumaticScaleAngelus Centritech LAB III Separation System.

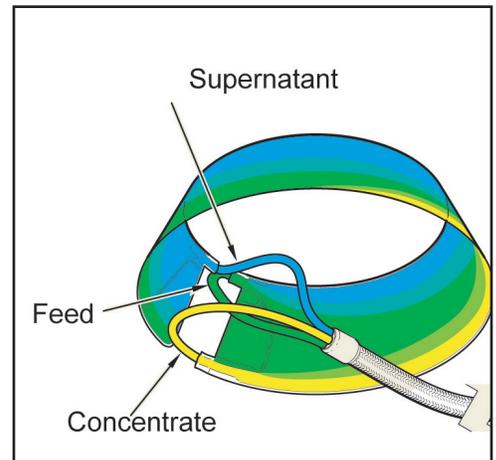
Mammalian and insect cells are especially fragile and susceptible to shear forces. The Centritech LAB III System provides a low-shear technology to improve the yield in perfusion, harvesting or other cell processing applications. Unlike filtration systems which inherently clog or foul, Centritech LAB III System provide reproducible, steady state operation.

Sterile Separation Insert

Separation takes place in a presterilized insert. Process contact surfaces are constructed from USP Class VI pharmaceutical grade materials. Once the insert is installed and tubing connected using aseptic technique or sterile welding, the system is closed, offering a high degree of aseptic reliability without the need for CIP or SIP.

In the LAB III System, the cell suspension is fed into an inlet at the top of one end of the insert and the cells are centrifugally separated from the media. Clarified supernatant exists from an outlet at the top of the other end and cell concentrate is discharged from an outlet at the bottom of the insert.

The Centritech LAB III Systems offer flexibility for your application. Control over both pumps (time and flow rate for feed and discharge) as well as centrifugal forces assure for your specific cell line application. Process developed at the research or pilot scale on the LAB III system are convertible to the Centritech CELL System, the larger floor model, making scale-up from the pilot to full production very easy.



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