

The better choice in centrifugation for most major applications

Centrifuge System Applications Guide

- Genomics
- Proteomics
- Cell Analysis
- Particle Characterization
- Centrifugation**
- Lab Automation
- Bioseparation
- Lab Tools



As the original centrifugation company, Beckman Coulter's legacy for innovation and discovery encompasses more than six decades. We continuously lead the way by designing, manufacturing, testing, selling and supporting our full line of centrifugation systems worldwide, providing scientists with expertise that revolutionizes research.

We offer centrifugation products that meet the needs of virtually every life science application. The following information provides guidance for the ideal system to choose to meet a specific need.

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	Ultracentrifuge			High Performance			High Capacity		General Purpose Benchtop						Microcentrifuge			
	Optima™		Airfuge®	Avanti®			J6	Avanti®	Allegra®						Microfuge®			
	Floor	Tabletop	Miniature						25R	6	X-22	X15R	X-12	64R	16	18	22R	
	L Series	MAX-XP, TLX		J-26 XP	J-E	J-30I	MI	J-HC										
PROTEIN ANALYSIS																		PROTEIN ANALYSIS
Protein precipitation Protein purification/isolation		■	■	■	■	■	■	■										Protein precipitation Protein purification/isolation
Virus Isolation First stage: debris cleanup				■	■	■	■	■										Virus Isolation First stage: debris cleanup
Viruses Pelleting PEG Precipitates Density Gradient Separations		■	■	■	■	■	■	■			■	■	■	■				Viruses Pelleting PEG Precipitates Density Gradient Separations
Proteins Centrifugal Filtration				■	■	■	■	■										Proteins Centrifugal Filtration
Lipoproteins Fractionation by Flotation Density Gradient Fractionation Fractionation by Precipitation Chylomicron Removal		■	■															Lipoproteins Fractionation by Flotation Density Gradient Fractionation Fractionation by Precipitation Chylomicron Removal
PROTEIN/CELLULAR ANALYSIS																		PROTEIN/CELLULAR ANALYSIS
Binding Studies			■	■	■					■	■	■	■	■				Binding Studies
CELLULAR ANALYSIS																		CELLULAR ANALYSIS
Bioprocessing—Batch Mammalian/insect cell, bacteria, yeast and tissue homogenates				■	■	■	■	■										Bioprocessing—Batch Mammalian/insect cell, bacteria, yeast and tissue homogenates
Subcellular Organelles First stage: debris cleanup Second stage: differential pelleting Third stage: gradient		■	■	■	■	■	■	■			■							Subcellular Organelles First stage: debris cleanup Second stage: differential pelleting Third stage: gradient
Membranes		■	■			■												Membranes
Clarification of Lipemic Samples																		Clarification of Lipemic Samples
Sample Preparation for Electron Microscopy																		Sample Preparation for Electron Microscopy
Blood Component Manufacturing				■	■		■	■										Blood Component Manufacturing
Cytosol Clarification 100,000 g supernatant		■	■			■												Cytosol Clarification 100,000 g supernatant
Cells Elutriation of Viable Cells				■		■	■	■										Cells Elutriation of Viable Cells
Blood Processing/Plasma Bloodbank							■	■										Blood Processing/Plasma Bloodbank
Blood Component Separation Clinical- Ficoll/Hypaque							■	■		■	■	■	■					Blood Component Separation Clinical- Ficoll/Hypaque
Cell Pelleting				■	■	■	■	■										Cell Pelleting
Bacteria				■	■	■	■	■										Bacteria
Yeast				■	■	■	■	■										Yeast
GENETIC ANALYSIS																		GENETIC ANALYSIS
Genomic DNA Debris cleanup Phase separation				■	■	■	■	■										Genomic DNA Debris cleanup Phase separation
Plasmid DNA Cleared lysate		■	■	■	■	■												Plasmid DNA Cleared lysate
Plasmid DNA/RNA Preps Spun column/microplate Gradient Alcohol precipitation		■	■	■	■	■	■	■										Plasmid DNA/RNA Preps Spun column/microplate Gradient Alcohol precipitation
Post-Reaction Cleanup				■	■													Post-Reaction Cleanup
DNA Size Fractionation in Sucrose Gradients		■	■															DNA Size Fractionation in Sucrose Gradients
RNA Phenol/CHCl3 Extraction Pelleting in CsCl2		■	■	■	■	■	■	■										RNA Phenol/CHCl3 Extraction Pelleting in CsCl2
FOOD PROCESSING																		FOOD PROCESSING
Soluble Solid/Total Solids Ratios Food processing quality assurance			■															Soluble Solid/Total Solids Ratios Food processing quality assurance