

## low speed centrifuge for molecular biology research

Benchtop low-speed centrifuges are a common laboratory equipment, widely used in medicine, biology, chemistry, and industry for the separation and analysis of cells, blood, proteins and other samples.

### Low-Speed Centrifuge

#### Main Features

1. Safety design: Safety lock stops rotation immediately when lid opens—prevents operational accidents.
2. Maintenance-free DC motor: Stable, reliable, reduces maintenance needs.
3. Multiple operation modes: Instant and timing modes—flexible for various workflows.
4. LCD display: Real-time speed and time display—easy data setting and monitoring.
5. Precise control system: Microprocessor controls speed, time, and RCF—ensures efficient, repeatable separation.



6. Forced ventilation and cooling: Air heat exchange system prevents sample overheating during centrifugation.
7. Automatic lid opening: After centrifugation, lid opens automatically and sound alerts notify—accelerates sample cooling.
8. Wide speed range: Adjustable 100–5000 rpm, RCF up to 2850×g—covers diverse sample needs.
9. Low noise & vibration: Chamber isolation layer absorbs noise/vibration—quiet, comfortable environment.
10. Comprehensive safety protection: Over-speed, over-voltage, current, and imbalance detection—real-time monitoring and alarm system for safe operation.

### **Working Principle**

Generates centrifugal force via high-speed rotor to separate sample components by density. Precise control of speed, time, and RCF delivers efficient, accurate results—heavy components settle, light ones rise.

### **Application Areas**

1. Medical clinics: Hematology, immunology, biochemistry—serum, plasma, cell separation.
2. Molecular biology: DNA/RNA/protein extraction/purification.
3. Industrial labs: Quality control, environmental monitoring.
4. Scientific research: Universities/institutions—cell, particle, protein, virus separation.

## **Advantages**

1. High-efficiency separation: Multiple rotor options for rapid, effective sample processing.
2. User-friendly: Intuitive LCD and simple interface—low learning curve.
3. Versatility: Rotors for various tube specs—adapts to different sample types.
4. Safety: Advanced detection systems protect both equipment and operator.

## **Optional Rotors**

1. 18×3.5/8ml Blood Collection Tube Angle Rotor—routine tube separation.
2. 24×3.5/8ml Angle Rotor—for higher-volume blood tubes.
3. 12×3.5/8ml or 12×15ml Tapered Tube Angle Rotor—different tube volumes.
4. 6×50ml Conical-Bottom Tube Angle Rotor—for large-volume separation.
5. 6×3.5/8ml or 6×15ml Angle Rotor—flexible for diverse tubes and needs.

<b>Model</b>	<b>C10</b>
Speed range	100rpm to 5000rpm
Speed accuracy	±100rpm
relative centrifugal force	2850xg
Capacity	8mlx24, 5mlx24, 3mlx24, 50mlx6
Timer	0 to 99minutes 59seconds or continuously
Motor type	brushless dc motor
Display screen	LCD
Safety	safety lid-lock, imbalance system
Acceleration and deceleration	20 seconds
Power supply	200Vac to 240Vac,50Hz, 60Hz, 200W