

cell washing centrifuge for lymphocytes and red blood cells

Cell washing centrifuge is a kind of laboratory equipment specially designed for cell separation, washing and cultivation, which is widely used in immunology, hematology, molecular biology and other fields.

Cell Washing Centrifuge

The cell washing centrifuge separates cells of different densities by centrifugal force, which can efficiently remove excess material on the cell surface, such as antigen, antibody, culture medium, etc., for cell washing, separation and analysis.

Features

- **Lymphocyte washing rotor:** Speed 4700rpm, centrifugal force 2000×g, suitable for lymphocyte washing and separation.
- **Erythrocyte cleaning rotor:** Speed of 3100rpm, centrifugal force of 1000 × g, suitable for the cleaning of erythrocytes and other blood samples processing.
- **Intelligent operation:** Parameters can be modified at any time during operation, real-time adjustment of speed, time and centrifugal force, eliminating the trouble of stopping and resetting. The RCF value of centrifugal force is automatically calculated and synchronously displayed to help users accurately control the centrifugal effect. The operation panel is equipped with 3 special program shortcuts to simplify the routine experimental operation.



- **High efficiency and speed:** It can quickly and accurately separate thrombin in platelets within 4 seconds, suitable for experiments with high acceleration and deceleration requirements. Provide standard and adjustable range of centrifugation time settings, IC timing automatic switch, easy for operators to control the centrifugation process.
- **Safety design:** Adopt electronic door lock and high safety design to avoid the safety hidden danger caused by misoperation during operation. The centrifugal chamber door cover is designed with translucent speed measuring holes, which enables real-time observation of the working status inside the centrifuge and ensures the safety of the samples. Each test tube on the rotor is equipped with a spring clamp to prevent the test tube from falling down when pouring liquid, ensuring safe operation.
- **Convenient rotor replacement:** Equipped with different types of specialized rotors, such as erythrocyte washing rotor, lymphocyte washing rotor, the rotor exchange is very convenient to adapt to the separation needs of different types of samples.
- **High quality guarantee:** Through the ISO9001 international standard quality management system certification, ISO13485 medical device management system certification, to ensure that the equipment quality is stable, in line with strict international standards.

Principle

1. The cell washing centrifuge separates components of different densities by centrifugal force generated by high-speed rotation. During centrifugation, heavier cells or particles are forced to settle to the bottom of the test tube, while lighter components remain in the upper layer.
2. **Centrifugal Force and Separation Efficiency:** Cell washing centrifuges achieve efficient separation of different cells by adjusting the rotational speed and centrifugal force. Lymphocytes, erythrocytes and other cells have different densities and need to be separated by precise centrifugal force to avoid cell damage.
3. **Separation process:** During centrifugation, different components in the liquid sample are separated into multiple layers based on density differences. When the cells are washed, the centrifugal force removes the solutes, medium and impurities outside the cells, leaving pure cells for further experimental analysis.
4. **Temperature control and precision:** The centrifuge is equipped with a precise time and speed control system, which allows the user to adjust these parameters to optimize the cell separation effect. The working parameters can be adjusted in real time without stopping the machine during operation, which ensures the flexibility and precision of operation.

cell washing centrifuge for lymphocytes and red blood cells

Model	CS30
Maximum speed	4700rpm
Maximum RCF	2000xg
Rotor for Lymphatic Ball Cleaning	max 2000xg, 12x0.25ml to 1ml
Rotor for blood cell cleaning	max 1000xg, 12x7ml
Rotation Speed Accuracy	±10rpm
Cell Smear Rotor	12x2ml
Timer	1 minute to 99 minutes
Centrifugal chamber diameter	280mm
Noise	≤65dB
Power supply	230Vac, 50Hz, 10A

cell washing centrifuge for lymphocytes and red blood cells

Model	CS30
Power	100W
Overall dimensions	230x270x250mm
Net weight	10kg