

cell smear centrifuge for body fluid cytology application

The cell smear centrifuge adopts a microcomputer control system, which can precisely set the rotational speed and time of centrifugation, and is used to separate the cell particles from other components in the sample.

Cell Smear Centrifuge

The cell smear centrifuge is designed for efficient and reliable separation of cell particles from liquid samples, supporting clinical, pathology, cytology, and environmental applications. Its advanced control system and user-friendly design make it ideal for high-precision cell smear preparation.

Features

1. Speed 3000rpm, suitable for lower speed cell separation and smear making.
2. Single tube sample volume range: 0.1ml to 0.5ml, adapting to the centrifugation needs of small volume samples.
3. The preparation capacity is 12 cards, which can handle multiple samples at the same time and improve the working efficiency.



4. Dedicated cell smear rotor and program, support ascites, sputum, pericardial fluid, urine and other body fluids cell smear production, high reliability and easy to operate.
5. Microcomputer control system and brushless DC motor drive, to ensure stable operation of the equipment, maintenance-free design, to avoid carbon powder pollution.
6. Equipped with LCD touch panel, support parameter setting, centrifugal force automatic calculation, support 50 customized rotor storage, with pointing function, quickly complete the separation operation.
7. Automatic balancing function: equipped with shock absorber, reduce the vibration caused by imbalance during centrifugation.
8. Electronic door lock design, to ensure that the door cover can not be started when it is not closed, the door cover can not be opened during operation, and automatic shutdown in abnormal conditions, to enhance safety.
9. Humanized design: easy to press the door cover can be automatically locked, simplify the operation.

Working Principle

1. Cell Smear Centrifuge separates cell particles from other components in liquid samples by centrifugal force generated by high-speed rotation.
2. The sample is centrifuged in a special cell smear rotor, and the cell precipitate obtained after centrifugation will be used for smear operation.

3. The centrifuge adopts a microcomputer control system, which can precisely set the rotational speed and time of centrifugation, and save different programs according to the user's needs.
4. The balance design and automatic adjustment function of the cell smear centrifuge can ensure stable operation even when processing multiple specimens and avoid sample loss due to imbalance.

Application Areas

1. Medical Testing: Cell Smear Centrifuge is widely used in clinical laboratories for the preparation of cell smears of body fluids, such as ascites, sputum, urine, joint cavity fluids and so on. Through the smear technology, it can help doctors make cytological diagnosis more accurately and detect the presence of abnormal cells.
2. Pathology research: In pathology research, the cell smear centrifuge is an important tool for obtaining cell samples and observing cell morphology, which provides an important cytological basis for the early diagnosis of cancer, inflammation and other diseases.
3. Cytology experiments: For various liquid samples, such as blood, cerebrospinal fluid, pleural fluid, ascites, etc., the cell smear centrifuge can extract the cell precipitate, providing samples for the subsequent cell analysis, cell culture, immunofluorescence and other experiments.
4. Research field: In the basic research of cytology, immunology and molecular biology, the equipment is widely used in sample preparation and cell analysis, helping researchers to explore the cell behavior and its role in the disease in depth.
5. Toxicology and environmental monitoring: It is used to analyze microorganisms and cells in water, soil and other environmental samples to assess their impact on the ecological environment.

Model	CS130
Maximum speed	3000rpm
Maximum RCF	890xg
Sample volume per tube	0.1ml to 0.5ml
Maximum film capacity	12 cards
Rotation Speed Accuracy	±30rpm
Timer	1 to 99 minutes
Noise	≤60dB
Power supply	230Vac, 50Hz
Power	260W
Overall dimensions	380x500x300mm
Net weight	19kg

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