

C-3100

Auto Cell Cytometer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

This fully automated cell counter can stain both live and dead nucleated cells and can be used in routine cell experiments, such as cell killing and apoptosis experiments, as well as brightfield and trypan blue cell counting.

This instrument is for scientific research testing only and is not intended for use as a medical device. Our company assumes no responsibility or liability for any damage or other losses resulting from failure to operate and use the instrument in accordance.

Features:

- Efficient and convenient use
- Accurate and quantitative test results
- Provides comprehensive cell statistics, including average diameter, circularity, and clumping rate
- Assess cell viability

Technical Parameters:

1. Single sample loading supports 6 samples, using a disposable cell counting chamber.
2. Optical Parameters: 10x standard objective lens, NA=0.25.
3. Detection Modes:
 - 1) Brightfield mode, trypan blue detection.
 - 2) Fully automated counting and viability analysis of various cells, eliminating human error.
4. Host System:
 - 1) All-in-one touchscreen design, 10.1-inch HD color screen (1920*1080 or higher).
 - 2) Intelligent operating system, standalone app mode, multi-touch, and flexible image zooming for easy observation of individual cells.
5. Detection Concentration Range: 1×10^4 - 5×10^7 cells/ml.
6. Cell Diameter Range: 2-200 μ m. Small cell counting function accurately counts cells smaller than 10 μ m.
7. Sample Volume: 20 μ l/sample, viability range 0-100%, coefficient of variation <5%.
8. Detection Speed: 3 samples per well, brightfield, <8 seconds, fast.
9. Brightfield Illumination: White LED illumination.
10. Imaging Parameters: Autofocus for optimal image acquisition, camera parameters of at least 6 megapixels, professional-grade CMOS color optical imaging.
11. Device Memory: 500GB solid-state memory, upgradeable.
12. Connection Ports: Ethernet port, one or more USB 3.0 ports.

13. Software Application Functions: The software includes built-in standard cell types and standard cell identification methods, enabling standardized testing and analysis, including brightfield counting and trypan blue counting.

14. Data Analysis: Real-time statistical analysis of image information, with high accuracy, database format, and results can be saved as PDF.

Operation Environment:

1. The instrument must be placed on a dry, sturdy, and non-vibratory surface.
2. Protect the instrument from moisture, dust, smoke, and direct sunlight.
3. The operating temperature must be within a constant range of 18°C to 37°C.
4. Prevent dust and other particles from entering the instrument. Store accompanying reagents and consumables, such as cell counting chambers and pipette tips, in a dust-free environment to avoid affecting image quality.

Operational Precautions:

1. The instrument must be connected to a grounded power source.
2. Operators must be trained and operate this device in a well-managed laboratory. When handling samples, it is recommended to wear protective clothing, especially gloves.
3. Handling of reagents, such as trypan blue, must comply with relevant safety regulations.
4. This device can be used with optional counting chambers. Only uncontaminated, clean, and sterile samples ensure optimal operation.
5. After use, disconnect the USB port.
6. Do not operate this device in a low-temperature environment. If the device is accidentally left in a low-temperature environment, bring it to room temperature and allow it to rest for at least 2 hours before use.
7. Do not place this device on a vibrating laboratory table. Ensure the table is stable and level.

Waste Disposal:

Tissue or cell waste, such as pipette tips, must be disposed of in accordance with relevant biohazardous material handling regulations.

This product uses trypan blue staining and two-color fluorescence to stain both live and dead nucleated cells. It can be used in routine cell experiments such as cell killing, cell transfection, apoptosis, cell cycle experiments, bright field cell counting, and GFP positive rate detection.

Precautions:

To ensure safe and reliable operation of the fully automated cell counter (hereinafter referred to as the instrument), please carefully read and operate the instrument in accordance with this instruction manual. This instrument is intended for scientific research testing only and is not intended for use as a medical device. Our company assumes no responsibility or liability for any damage or other losses resulting from failure to operate or use the instrument in accordance with this instruction manual.

Usage Environment:

1. The device should be placed on a dry, sturdy, non-vibrating surface.
2. The device should be protected from moisture, dust, smoke, and direct sunlight.
3. The operating temperature should be between 4°C and 40°C.
4. Dust and dust particles should be prevented from entering the device. The accompanying reagents and consumables, such as cell counting chambers and pipette tips, should be stored in a dust-free environment to avoid affecting imaging

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system

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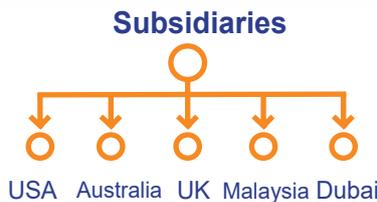
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