



OBio H5AL

5 Part Autoload Hematology Analyzer



OBio...

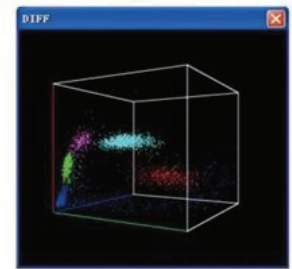
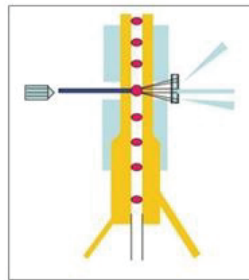
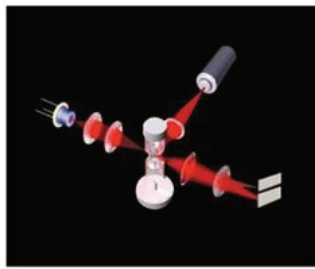
Supporting Care to Cure

A Division of Orchard Medical

Multi-angles laser scatter analysis technology

- Laser light scatters at different angles
- Chemical dye reagents
- Flow cytometry system

With the three key techniques combined, accurate information regarding cell size, intracellular structure and granularity is collected and analyzed to achieve WBC 5-part differentiation reliably. Abnormal lymphocyte (ALY) and large immature cells (LIC) can be screened out to provide more meaningful information for clinical diagnosis needs.



Micro-level blood dispensing technology ensures peripheral blood and diluted blood sample test to have accurate results.

- Uniquely designed injection system to dispense blood sample with high accuracy
- Wear resistance, high precision and long-life hardware
- High accuracy micro-level sample aspiration
- Perfectly suitable for fingertip blood sample drawn from children and patients receiving chemotherapy

Advanced data management system

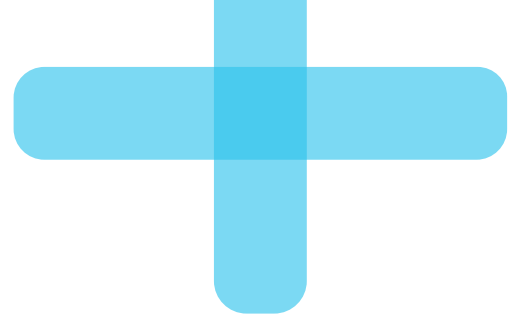
- Compatible with various computer operation systems
- Bilateral directional LIS communication and LIS data management



OBio...

Supporting Care to Cure

A Division of Orchard Medical



Fully automated intelligence technology

- Smart temperature control system to provide vigorous reaction process of cells and stable testing environment
- Intelligent 3D display of WBC 5 part differential
- RFID technology makes reagent management easier and efficient
- All reagents can be changed at one time simply by pressing one key
- Decision rules to re-check abnormal sample
- Automatic reminding prompt for re-check of abnormal sample



Automatic maintenance of whole instrument and one key trouble-shooting

- Ways to reduce risk of clogging: soaking with high concentration cleansing solution, flushing by positive and negative pressure, high voltage burning of the aperture
- Intelligently automatic maintenance and self-checking (instrument conditions and reagent status)
- One key troubleshooting to solve common problems automatically
- Automatic sleeping and awaking function
- Integrated modules design for easier maintenance



OBio H5AL

Fully automatic 5 part hematology Analyzer with sample autoloader

Principles:

Laser Scattering + Chemical Dye + Flow Cytometry (WBC + DIFF)

Impedance Method (WBC/RBC/PLT)

Cyanide Free Reagent Colorimetric Method for HGB

Testing Channel:

RBC/PLT Channel + WBC/BASO/HGB Channel + WBC DFF Channel

Parameters:

29 parameters including 24 reported parameters: WBC LYM% LYM# NEW% NEU# MON% MON# EOS% EOS# BAS% BAS# RBC HGB HCT MCV MCH MCHC RDW-CV RDW-SD PLT PDW MPV PCT P-LCR P-LCC 4 research parameters: ALY# ALY% LIC# LIC%.

Scattergram: 3D scattergram for WBC 5 diff plus 2D scattergrams for WBC 5 diff

Histograms: 3D 5 diff histogram, WBC/BASO histogram, RBC histogram, PLT histogram

Analysis Modes: CBC + 5 DIFF, CBC/CBC + 3 DIFF

• Performance:

Parameter	Linearity Range	Precision	Carryover
WBC	0 - 100.0 * 10 ⁹ /L	≤ 2.0%	≤ 0.5%
RBC	0 - 8.00 * 10 ¹² /L	≤ 1.5%	≤ 0.5%
HGB	0 - 200g/L	≤ 1.5%	≤ 0.5%
PLT	0 - 1000* 10 ⁹ /L	≤ 4.0%	≤ 1.0%

Throughput: 80 samples/hour by autoloader, 60 samples/hour by manual sampling

Sampling method: Closed tube

Blood sample: Venous whole blood, peripheral blood, diluted blood

Sample volume: Whole blood 16ul, diluted blood 20ul

Data management: Bi-directional LIS communication, storage of 100,000 records

Standby mode: Automatic sleeping and awaking function to allow the analyzer 24 hours turned-on

Control modes: L-J, \bar{X} , \bar{X} -R, X-B

Power requirement: AC 220V±22V, 50Hz±1 Hz, ≤200VA

Dimensions: Width ≤650mm, Height ≤ 540mm, Depth ≤630mm Weight ≤58kg

