OBioH5AL

5-Part Hematology Analyzer



Basic Parameters

Test speed	60T/H
Principle Technology	Triangular laser scattering and sheath flow for leukocytes, impedance for erythrocytes and platelets, and cyanide-free for hemoglobin
Channels	2 Channels
Gemstone hole aperture	RBC/PLT Gemstone Hole Diameter: 70um
Histogram	4 scatter plots, 2 histograms (including RBC, PLT histograms)
HGB lamp wavelength	LED lamp wavelength 530nm
Sample Volume	Whole Blood Mode: 20ul, Pre-Dilution Mode: 20ul
Measurement items	37 test items:WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#,Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC, LIC%, LIC#, ALY%, ALY#,NLR,PLR,PDW-CV,PDW-SD,NRBC#,NRBC%,PLT-C#,PLT-C%

Hardware

Calibration	Manual, automatic and fresh blood calibration
Counting Mode	Whole blood, capillary whole blood, pre-diluted
Printing	Automatic printing, manual printing
LIS System	LIS support

Reagents

Reagents	Standard: Diluent: 20L, Hemolyte DIFF Lyse: 500ml, Hemolyte LH Lyse: 100mL
Powerful cleaning solution	Standard: PB Wash: 50ml

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Other

Working Temperature	10-30°C
Power supply	100 ~ 240 AC, 50/60Hz, 200VA
Relative Humidity	≤85%
Atmospheric Pressure	70.0kPa-106.0kPa



Specifications

Inputs	10.4 inch touch screen, keyboard and mouse
Output	Built-in printer, support for external printer
Printing paper	57×35mm
Communication	2 USB ports, 1 network port
Memory	50,000 results
Clogging Clearance	High-pressure, high-pressure rinsing
Full autosampling mode	Supports simultaneous loading of five rows of sample racks (5*10) at one time
Auto Rotary Sweep	Automatic rotary scanning of sample tube barcode
Automatic Sample Shaking	Sample tube fixation automatic shaking
Sample tube puncture	Supports automatic puncture loading without opening the cap
Emergency position detection	According to the testing needs of the emergency position detection
Dimensions	641 x 592 x 465mm
Net Weight	35KG

Performances

Items	CV
WBC	≤ 0.5%
RBC	≤ 0.5%
HGB	≤ 0.6%
PLT	≤ 1.0%

precision

Items	background
WBC	≤ 0.2×10^9/L
RBC	≤ 0.02×10^{12}/L
HGB	≤ 1 g/L
HCT	≤ 0.5%
PLT	≤10×10^9/L

background

Item	Whole blood sample CV (CV/absolute deviation d)	Pre-diluted sample CV (CV/absolute deviation d)	Measurement range
WBC	≤2.0%	≤4.0%	(4.00~15.00)*10^9/L
RBC	≤1.5%	≤2.0%	(3.50~6.00)*10^{12}/L
HGB	≤1.5%	≤2.0%	(110~180)g/L
PLT	≤4.0%	≤8.0%	(150~500)*10^9/L

accurate

Item	Linearity range	Deviation from linearity (whole blood mode)
WBC	(0.00 ~ 300.00)*10^9/L	±5%
RBC	(0.00 ~ 8.00)*10^{12}/L	±5%
HGB	(0 ~ 250)g/L	±2%
PLT	(0 ~ 1000)*10^9/L	±8%

linearly

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