FULLY AUTOMATED HEMATOLOGY ANALYZER

BC-5000

Auto Hematology Analyzer

Technical Specifications

Principles

Impedance method for RBC and Platlet counting
Cyanide free reagent for hemoglobin test
Flow Cytometry (FCM) + Tri-angle laser scatter + Chemical dye method for WBC 5-part differential analysis and WBC counting

37 Parameters

25 Reportable parameters:
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

12 Research parameters:
Atypical Lymphocyte %, Atypical Lymphocyte #, Large Immature Cells %, Large Immature Cells #, Blast Cells %, Blast Cells#, NRBC%, NRBC#, PLT Clumps%, PLT Clumps#, Lipid Cells%, Lipid Cells#

3 histograms for WBC, RBC and PLT
3 scattergrams for WBC differential

Reagent

Diluent, DIFF lyse, LH lyse, probe cleanser

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	0-500x10^9/L	≤20%(4-15x10^9/L)	≤0.5%
RBC	0-8x10^{12}/L	≤1.5% (3.5-6.0X10^{12}/L)	≤0.5%
HGB	0.250g/L	≤1.5%(110-180g/L)	≤0.6%
PLT	0-5000x10^9/L	≤4.0% (100-500x10^9/L)	≤1.0%

Sample Volume

Prediluted mode	20μL
Whole blood mode	15μL
Capillary whole blood mode	15μL

Throughput

40 samples per hour

Display

10.4 inch TFT Touch Screen

Multi-language

Chinese, English

Data Storage Capacity

Up to 40,000 results including numeric and graphical information

Communication

LAN port supports HL7 protocol

Interface

USB, LAN
Support uni-directional LIS

Printout

External Laser printer / Inkjet printer, various printout formats and user-defined formats

Operating Environment

Temperature: 10°C~30°C
Humidity: 20%~85%
Air pressure：70 kPa~106 kPa

Power requirement

100V-240V
50Hz/60Hz

Dimension and Weight

400 mm(Depth) x 320 mm(width) x 410 mm(height)
Weight :24kg

For Distributor; Wholesaler & Retailer Enquiries, contact:
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(A Rapid Diagnostic Group of Company)
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Local Contact

Fully Automated HEMATOLOGY ANALYZER

BC-5000

37 Parameters
new version 2.06

A "Cute" 5 Part

CE

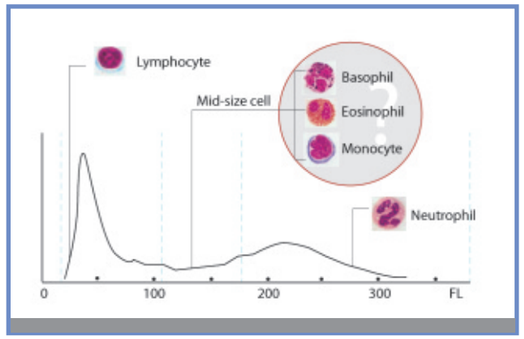
"Advanced Technology Excellent Quality"

ASPEN

mindray

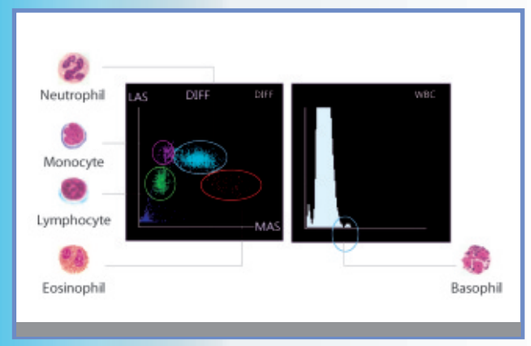
Why do we need 5-part hematology analyzers?

WBC differential: 3-part



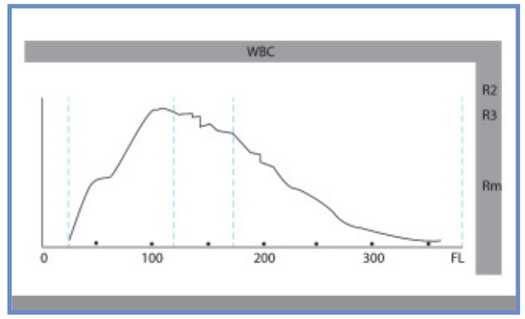
3-part hematology analyzers can not differentiate Basophil,Eosinophil and Monocyte. Additionally, Lymphocyte and Neutrophil results are easily affected by abnormal cells.

WBC differential: 5-part



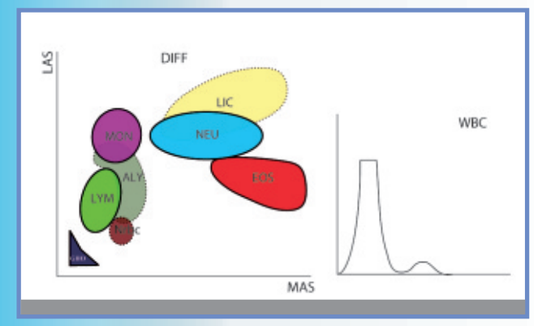
5-part hematology analyzers can provide Lymphocyte, Monocyte, Neutrophil, Eosinophil and Basophil results for every sample. Additionally, the 5-part results are less affected by abnormal cells.

Flag information: 3-part



WBC histogram only indicates regional abnormal graph, it can't bring specific flags for different clinical cases.

Flag information: 5-part



5-part hematology analyzers provide more detailed and specific flag information. Users are able to clearly understand the clinical significance of flags and make a decision.

Dr Marisela Ramos, lab manager

Users are able to access our tailored innovation and intelligent diagnosis support to safeguard their diagnoses decisions with maximum confidence.

She said: " we upgraded to a 5-part hematology analyzer 3 months ago, and it's been working very well. Our lab has lots of abnormal samples, such as Eosinophilia and Monocytosis samples. We could only get the information that the mid-size cells percentage was higher than normal level, but couldn't distinguish which kind of cells increased exactly. Now, the 5-part hematology analyzer provides flags directly, which reduces smears need to be reviewed, and significantly improves our work efficiency."

BC-5000

Auto Hematology Analyzer

Based on Mindray's continuous innovation in hematology field, BC-5000 is especially tailored to assist diagnostic labs who need full CBC + 5-part results, with relatively low daily sample volume, restricted lab space and tight budget.

As the lightest and most compact 5-part hematology analyzer so far from Mindray, BC-5000 is a highly user-friendly and innovative analyzer that offers cost efficient CBC and 5-part white cell differential results. It is targeted to fulfill and exceed the demands of our global customers by providing more accurate, more efficient and more innovative solutions for labs.

WBC 5-part differentiation, 37 parameters, 3 histograms and 3 scattergrams
Whole blood mode, Capillary whole blood mode and Prediluted mode
Tri-angle Laser scatter + Chemical dye + Flow cytometry technology
Dedicated optical counting channel for Basophil measurement
Powerful capability of flagging abnormal cells
10.4 inch large TFT touch screen with user-friendly software
Large storage capacity: up to 40,000 samples
Throughput: 40 samples per hour
Sample volume is only 15μL which is ideal for pediatrics

Tri-angle laser scatter + focused flow + chemical dye, creating the possibility for a better 5-part WBC differentiation even on samples with high Eosinophil.