BC-6200
Auto Hematology Analyzer

Principles
SF Cube* method to count WBC, 5-part diff, NRBC, RET and PLT-O
DC impedance method for RBC and PLT
Cyanide free reagent for hemoglobin test
*S: Scatter; F: Fluorescence; Cube: 3D analysis

Parameters
37 Reportable parameters (whole blood): WBC, Lym%, Mon%, Neu%, Bas%, Eos%, IMG%, Lym#, Mon#, Neu#, Eos#, Bas#, IMG#; RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, NRBC#, NRBC%; PLT, MPV, PDW, PCT, P-LCR, P-LCC, RET%, RET#, RHE, IRF, LFR, MFR, HFR, IPF
29 Research parameters (whole blood): HFC#, HFC%, RBC-O, PLT-O, PLT-I, WBC-O, WBC-D, TNC-D, IME%, IME#, H-NR%, L-NR%, NLR, PLR, WBC-N, TNC-N, InR#, InR‰, Micro#, Micro%, Macro#, Macro%, RPI, H-IPF, IPF#, MRV, FRC#, FRC%, PDW-SD
7 Reportable parameters (body fluid): WBC-BF, TC-BF#, MN#, MN%, PMN#, PMN%, RBC-BF
11 Research parameters (body fluid): Eos-BF#, Eos-BF%, Neu-BF#, Neu-BF%, HF-BF#, HF-BF%, RBC-BF, LY-BF, LY-BF%, MO-BF#, MO-BF%

2 Histograms for RBC and PLT
3 Three-dimension scatter grams: DIFF, WNB, RET
5 Two-dimension scatter grams: DIFF, WNB, RET, RET-EXT, PLT-O

Mode
CBC, CBC+DIFF, CBC+DIFF+RET, CBC+RET, RET

Data storage capacity
Up to 10,0000 results including numeric and graphical information

Operating environment
Temperature: 15 ℃~32 ℃
Humidity: 30%~85%

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	0-500×10⁹/L	≤2.5% (≥4×10⁹/L)	≤1.0%
RBC	0-8.60×10¹²/L	≤1.5% (≥3.5×10¹²/L)	≤1.0%
HGB	0-260g/L	≤1.0% (110-180g/L)	≤1.0%
HCT	0-75%	≤1.5% (30%-50%)	≤1.0%
PLT	0-5000×10⁹/L	≤4.0% (≥100×10⁹/L)	≤1.0%
RET#	0-0.8×10¹²/L	≤15% (RBC≥3×10¹²/L; 1%≤RET%≤4%)	/

Sample volume

Whole blood (Autoloader, Closed Tube)	80uL
Capillary blood (Closed Tube)	35uL
Predilute (Closed Tube)	20uL
Body fluid (Closed Tube)	85uL

Throughput
Up to 110 samples per hour (CBC+DIFF)
Up to 65 samples per hour (RET)
Up to 40 samples per hour (Body fluid)

Loading capacity
Up to 50 sample tubes

www.mindray.com

P/N:ENG-BC-6200-210285X12P-20170905

mindray
healthcare within reach

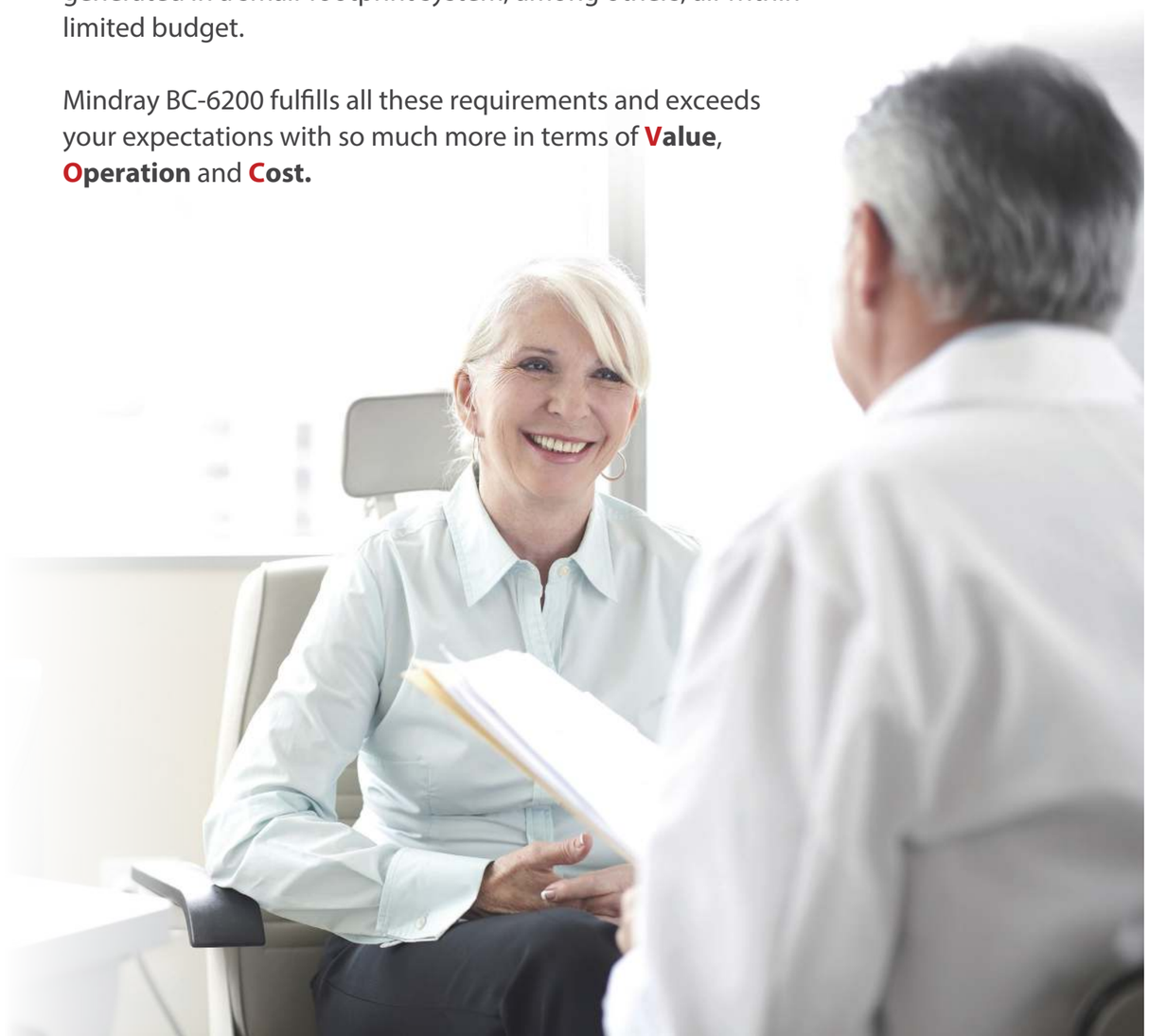
BC-6200
Auto Hematology Analyzer

High Performance for ALL

Value Operation Cost

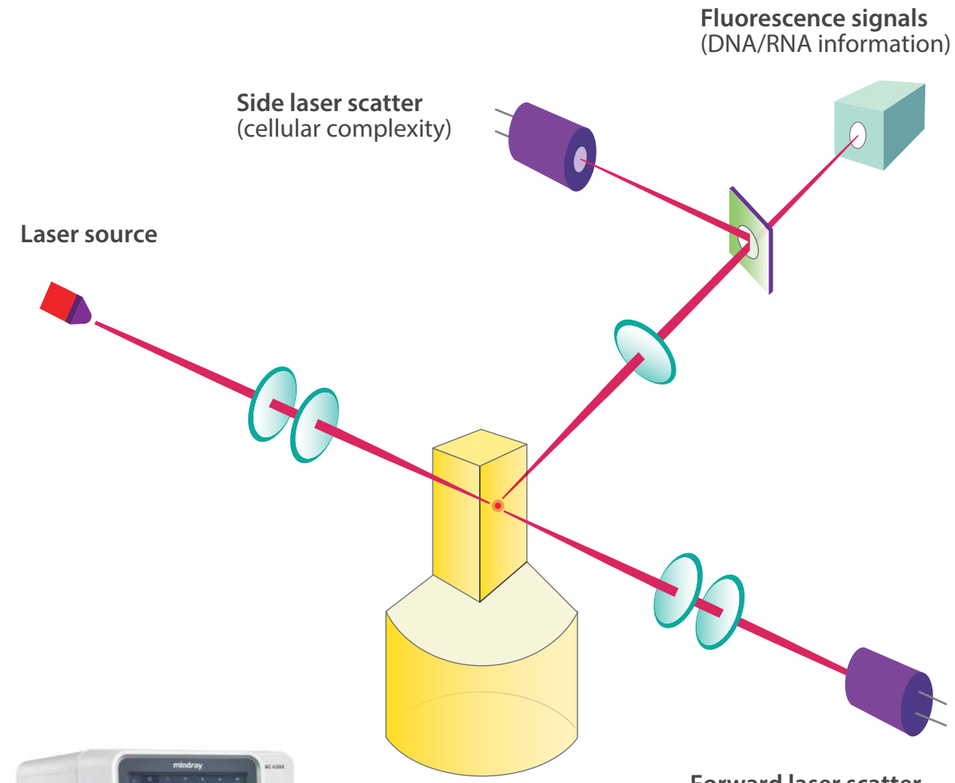
At Mindray, we seek to understand the needs of every customer, and deliver tailor-made solutions. Before designing any product, we listen to the Voice Of Customers and bear in mind the challenges they face. In today's laboratories, lab managers are looking for an analyzer with greater clinical values, such as higher flagging efficiency to reduce the ratio of microscopic examination, NRBC/RET/body fluid results generated in a small-footprint system, among others, all within limited budget.

Mindray BC-6200 fulfills all these requirements and exceeds your expectations with so much more in terms of **Value**, **Operation** and **Cost.**



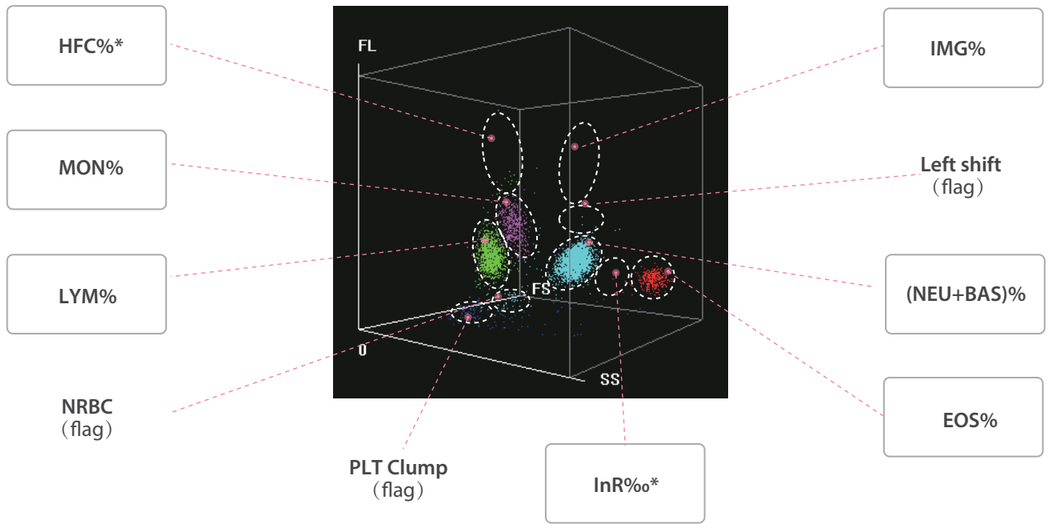
SF Cube
Cell Analysis Technology

Value



With the newly designed optics and reagent systems, the SF Cube technology can help doctors to better differentiate the clusters of cells, which is the key to revealing more abnormal cells.

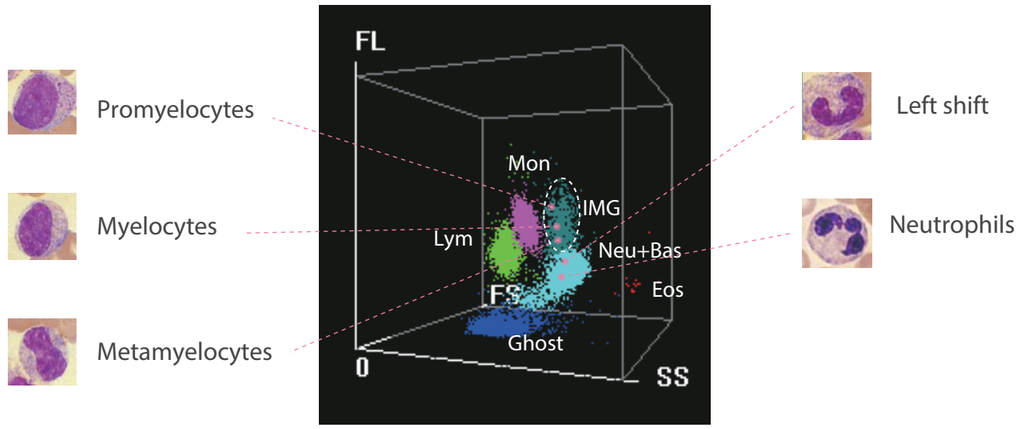
DIFF Channel



In DIFF scattergram, BC-6200 not only gives WBC 5-part differential results (with immature granulocyte), but also brings research parameters such as HFC (Blast & Atypical Lymphocyte), InR (information about malaria) and flags for Band, NRBC, PLT clump and Atypical Lymphocyte.

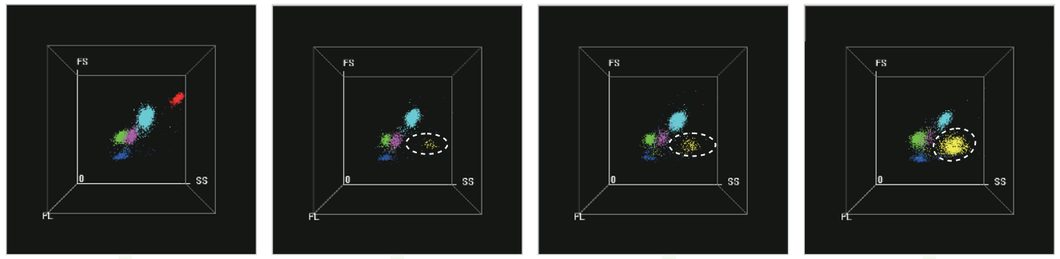
HFC*(#, %) parameters represent high population of fluorescent cell, such as Blasts and Atypical Lymphocytes.

IMG(#, %) parameters provide information about immature granulocytes, including Promyelocytes, Myelocytes, Metamyelocytes, Immature Eosinophils and Immature Basophils.



*For research use only

Malaria screening



Normal sample

Few
1-4 infected RBC
per 4 microscopy view

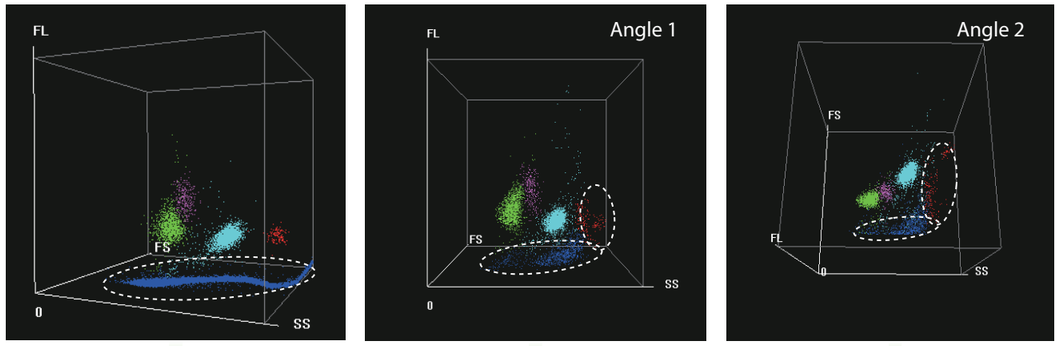
Some
2-3 infected RBC
per microscopy view

Many
>4 infected RBC
per microscopy view

Note: The yellow scatters are just for highlight.

BC-6200 provides a dedicated flag called “infected RBC?”, and “InR*(#,‰)”parameters to represent the number and ratio of the infected red blood cells in the sample respectively. BC-6200 users can obtain information about the possible presence of plasmodium parasite, the causative agent of malaria infection.
With the rising number of red blood cells with malaria parasites, the number of dots in the “InR” area increases proportionately. This creates the possibility to not only screen but also judge the severity of malaria infection.

Interference prevention



Lipid particle has **no fluorescence**

The PLT clump seems **mixed up** with Neutrophil and Eosinophil

The PLT clump is well separated from Neutrophil and Eosinophil

In DIFF scattergram, WBCs are dyed, but not lipid particles, by fluorescence, which prevents interference and ensures more accurate WBC results.
With information obtained through the 3D analysis, PLT clumps are well separated from each cluster of WBCs.

NRBC results in every CBC

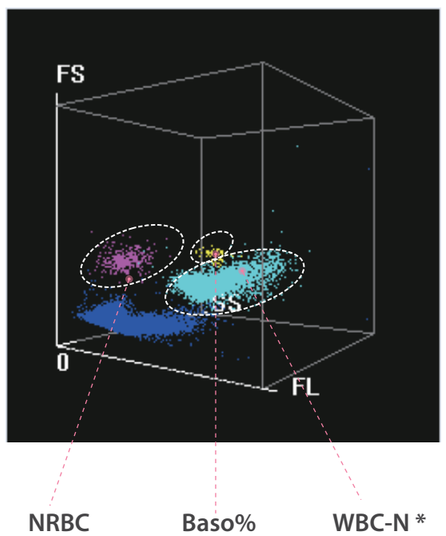
Automatic correction WBC counting, make sure neonatal counting correctly

Diagnosis for hemolytic anemia

Monitoring of hematopoietic diseases

Reduce the ratio of review

WNB Channel

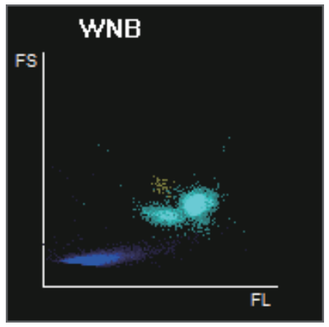


In WNB scattergram, BC-6200 provides NRBC, Basophils and WBC-N* results. It means that the actual number of NRBCs can be measured in routine CBC, if they are present in the sample.
Basophils are counted in this counting channel with NRBC results.

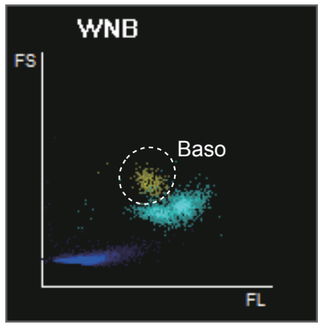
Basophil and NRBC results are generated on BC-6200 without extra reagent or cost.

For research use only

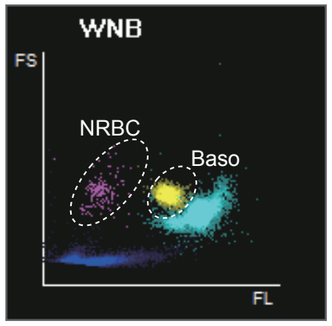
NRBCs do not usually exist in the peripheral blood except that of newborn children. Detection of NRBCs is essential in diagnosing and monitoring the hematopoietic diseases.



Normal sample

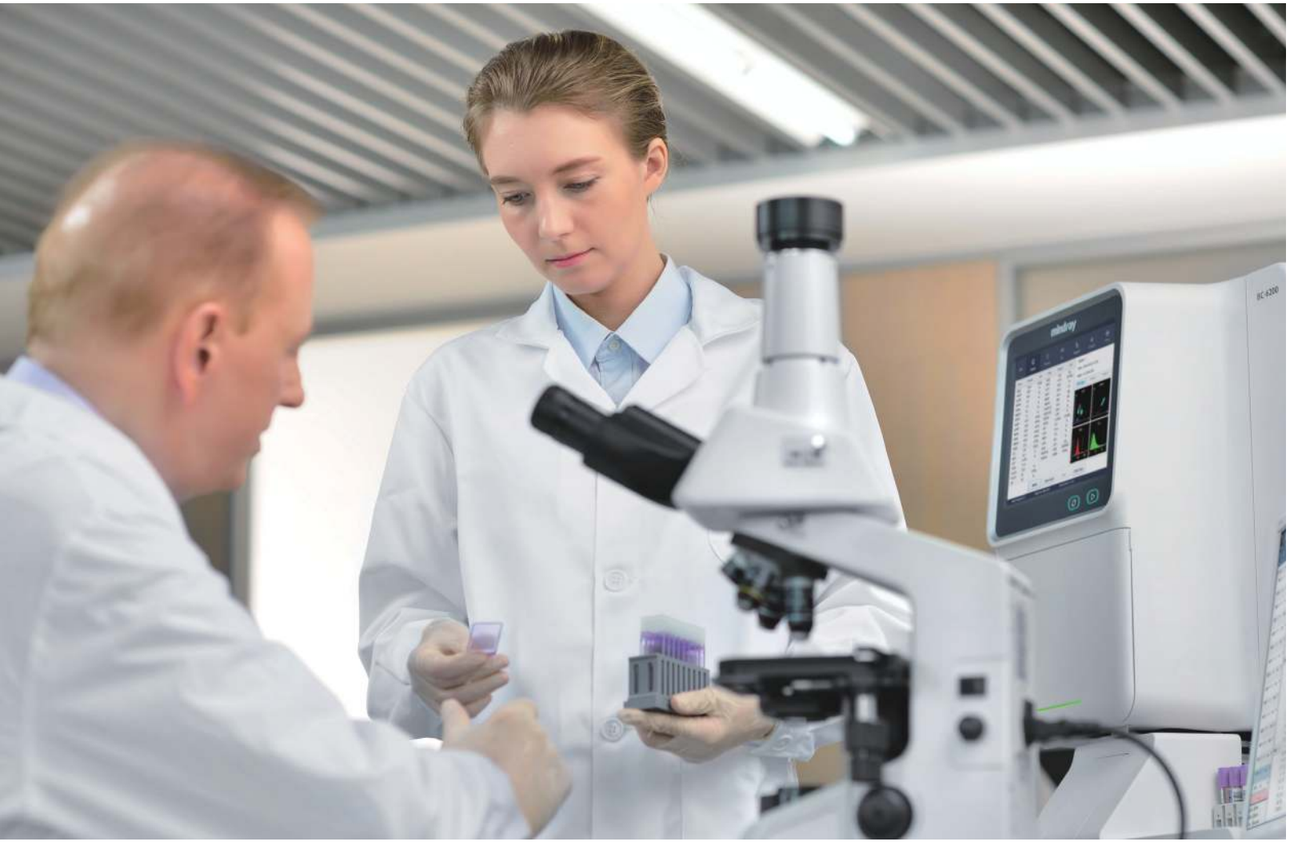


High Baso sample



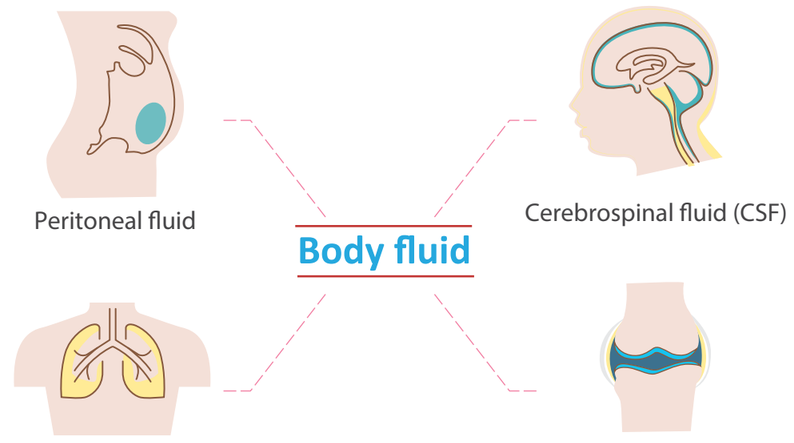
High Baso & NRBC sample

BC-6200 provides accurate results on samples even with high level of Basophils and NRBCs.

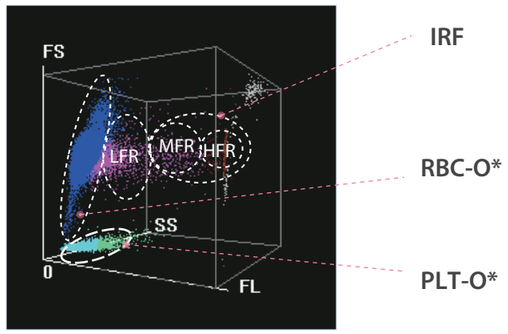


Body fluid

Besides blood specimen, BC-6200 also has body fluid test function without requiring dedicated reagent. The various types of body fluids include Peritoneal fluid, Pleural fluid, Cerebrospinal fluid (CSF) and Synovial fluid.



RET Channel



With the SF Cube cell analysis technology, Reticulocytes are differentiated from the other red cells by their reaction with fluorescent stain. Besides the traditional parameters such as RET# and RET%, BC-6200 provides data concerning immature reticulocytes (IRF), which can assist in early diagnosis of anemia and monitoring the bone marrow response to therapy.

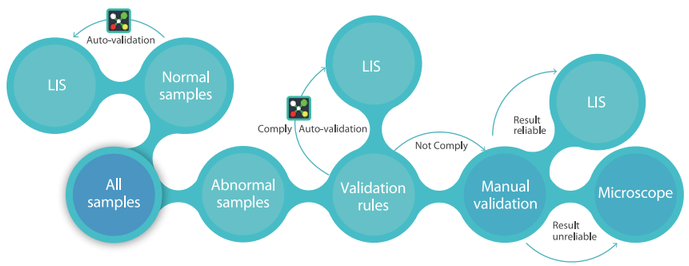
**For research use only*

Applicable to variety of tubes

To cater to customer's diversified needs, different types of blood collection tubes can be used on BC-6200 , including regular whole blood vacuum tube, capillary blood microtainer tube and Sarstedt tube.

More Intuitive labXpert software

LabXpert is a standard configuration of BC-6200 for professional data analysis.
The labXpert software optimizes functions to simplify your workflow for data analysis including improving re-exam efficiency, auto-validation for normal samples; it also provides more intuitive interface for you to review and validate pathological samples.



Operation

Capillary blood microtainer tube

Whole blood vacuum tube

Sarstedt tube

labXpert

Cost

Automatic Rerun & Reflex

Should the sample results trigger the criteria, the autoloader of BC-6200 can return the sample racks for an automatic rerun or reflex check.

Less testing time

BC-6200 can load up to 50 samples at a time and offers a throughput of up to 110 tests per hour.

Low sample volume

BC-6200 requires less sample volume as well as reagent consumption. For a CBC+DIFF+RET test with NRBC result, BC-6200 only requires 80μL of whole blood and 35 μL of capillary blood.

Easy maintenance

The only maintenance for end user is daily shut down by probe cleanser or probe cleanser cleaning once per day (if not shut down). The "auto-protect" program reminds operators when maintenance is needed (if not shut down).