

BC-6800Plus

Auto Hematology Analyzer

Principles

SF Cube® method to count WBC, 6-part diff, NRBC, ERP and PLT-O;
Photometric method for ESR test
Focusing Flow-DC method for RBC and PLT
Cyanide free reagent for hemoglobin test
*S: Scatter; F: Fluorescence; Cube: 3D analysis

Parameters

54 Reportable parameters (whole blood):

WBC, Lym%, Mon%, Neu%, Bas%, Eos%, IMG%, Lym#, Mon#, Neu#, Eos#, Bas#, IMG#, Neu-X*, Neu-Y*, Mon-X*, RBC, HGB, HCT, MCV, MCH, MCHC, MCHm*, MCHr*, MCVr*, RDW-CV, RDW-SD, NRBC#, NRBC%; Micro%*, Macro%*, PLT, PLT-H†, PLT-I*, PLT-O*, MPV, PDW, PCT, P-LCR, P-LCC, RET%, RET#, RHE, IRF, LFR, MFR, HFR, HDW*, IPF, IPF#*, DELTA-CH*, HYPO-CH%*, HYPER-CH%*, ESR† (Parameters marked with '*' are research parameters in Brazil, Russia, and Saudi Arabia; parameters marked with '†' are not available in countries with incomplete registration process.)

53 Research parameters (whole blood)

7 Reportable parameters (body fluid)

3 Histograms:

RBC, PLT, and PLT-H

5 Three-dimension scattergrams:

DIFF, WNB, RET, ERP, RBC VHF

8 Two-dimension scattergrams:

DIFF, WNB, RET, RET-EXT, PLT-O, RBC SCT, RBC VHF, PLT-H

Mode

CBC, Ret, CD, CR, CDR, ESR, CBC+ESR, CD+ESR, CDR+ESR, CR/PLT-8X, CDR/PLT-8X, PLT-O, CD/PLT-O

Data Storage Capacity

Up to 100,000 results including numeric and graphical information

Operating Environment

Temperature: 15°C~32°C
Humidity: 30%~85%

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	0-500×10 ⁹ /L	≤2.5% (≥4×10 ⁹ /L)	≤1.0%
RBC	0-8.60×10 ¹² /L	≤1.5% (≥3.5×10 ¹² /L)	≤1.0%
HGB	0-260g/L	≤1.0% (110-180g/L)	≤1.0%
HCT	0-75%	≤1.5% (30%-50%)	≤1.0%
PLT	0-5000×10 ⁹ /L	≤4.0% (≥100×10 ⁹ /L)	≤1.0%
RET#	0-0.8×10 ¹² /L	≤15% (RBC≥3×10 ¹² /L; 1%≤RET%≤4%)	/
ESR	/	≤1.80(SD) (0~20mm/h); ≤ 9%(CV) (>20mm/h)	/

Sample Volume

CD (whole blood, autoloader): 190µL
CD (whole blood, open vial): 130µL
CD+ESR (whole blood, autoloader): 400µL
Predilute (open vial): 40µL
Body fluid (open vial): 130µL

Throughput

Up to 200 samples per hour (CBC+DIFF)
Up to 120 samples per hour (CBC+DIFF+ESR)[§]
Up to 120 samples per hour (CBC+DIFF+RET)
Up to 85 samples per hour (CBC+DIFF+RET+ESR)[§]
Up to 120 samples per hour (ESR)[§]
Up to 40 samples per hour (Body fluid)
§: Not applicable in France, Germany, and Italy

Loading Capacity

Up to 100 sample tubes



META MEDI

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mindray

BC-6800Plus

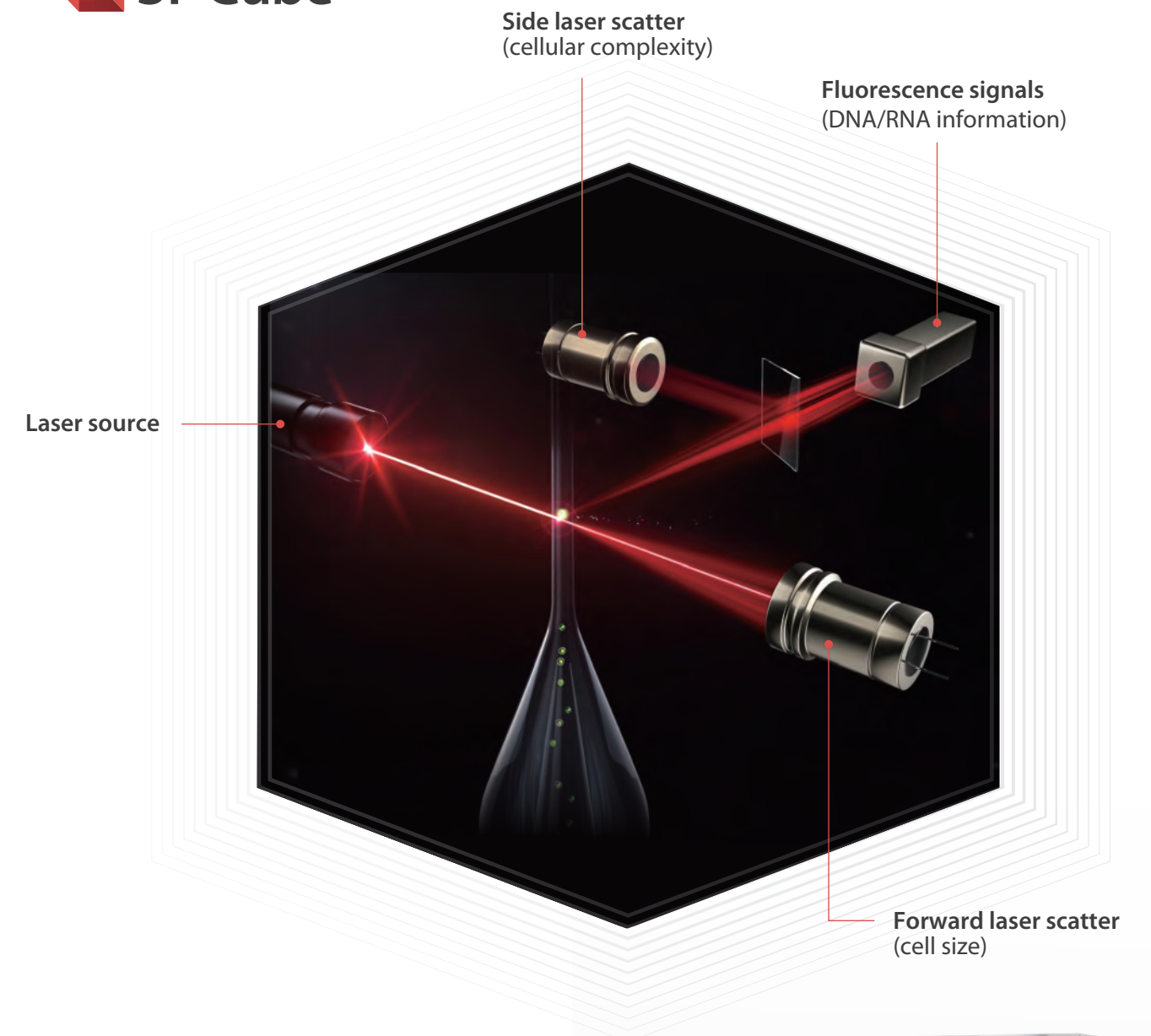
Auto Hematology Analyzer

Unleash the Power of Integration



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, one-stop CBC and ESR joint testing, NRBC/RET/body fluid results generated in a high-speed system, among others, all within limited budget.

Mindray BC-6800Plus fulfills all these requirements and will exceed your expectations with so much more in terms of **Value, Operation** and **Cost**.

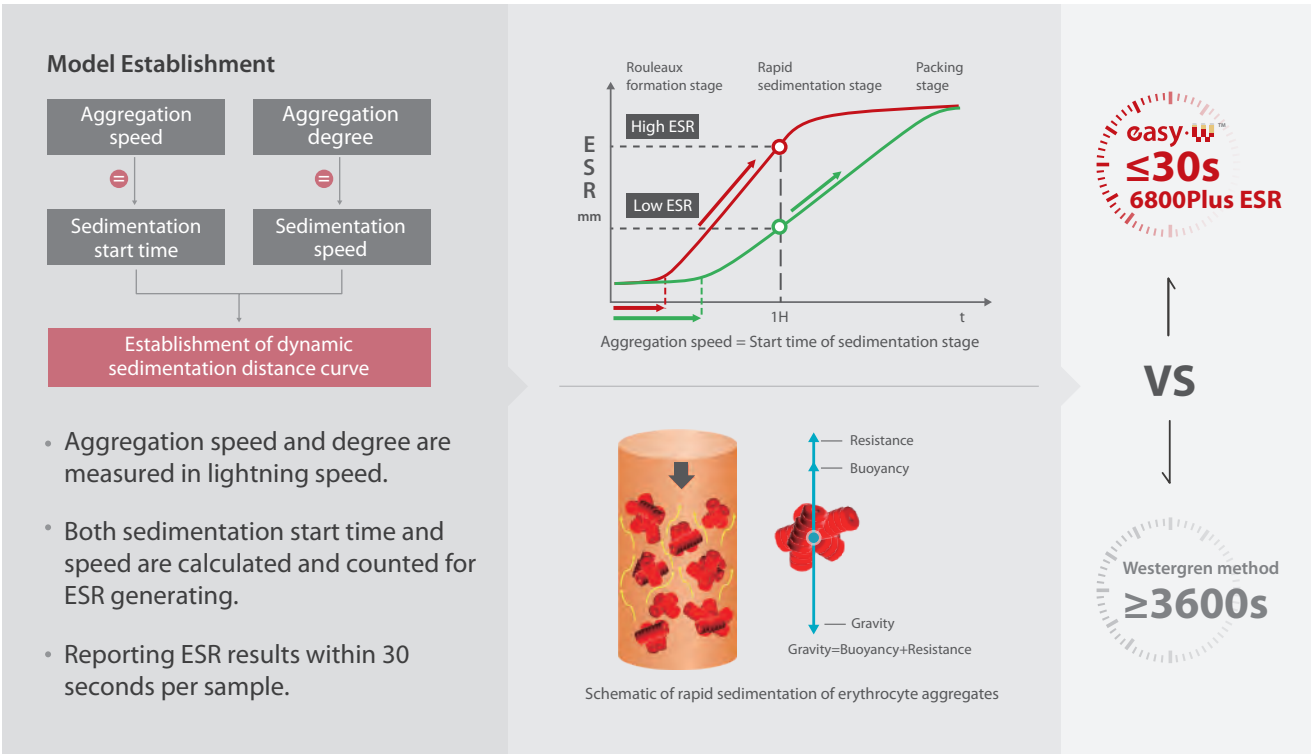


With the newly designed optics and reagent systems, the SF Cube technology can help doctors to better differentiate the clusters of cells, which is the key to revealing more abnormal cells.

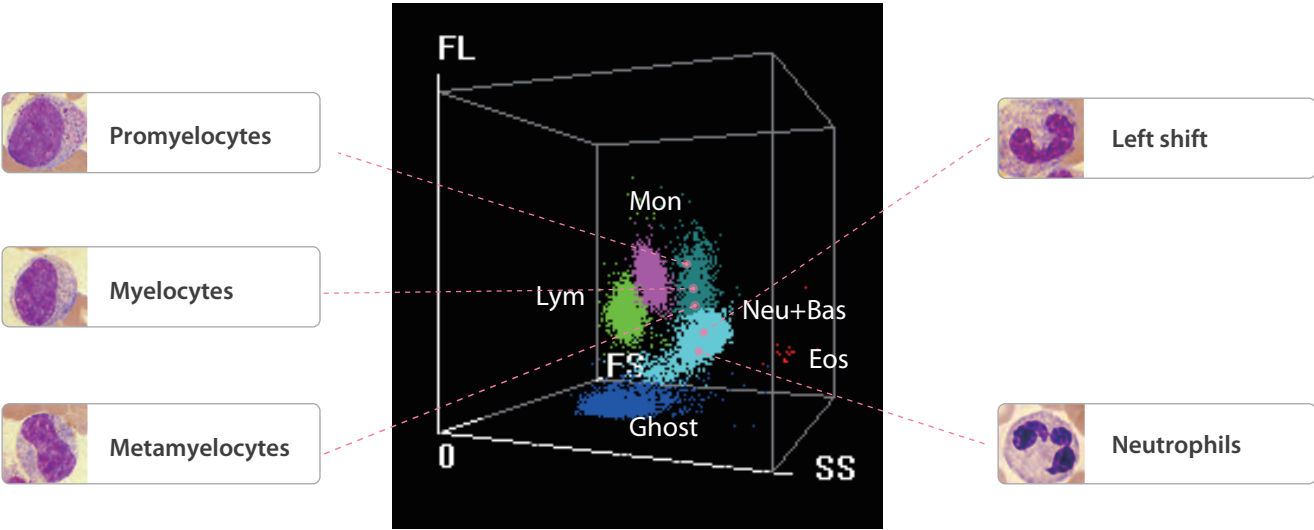
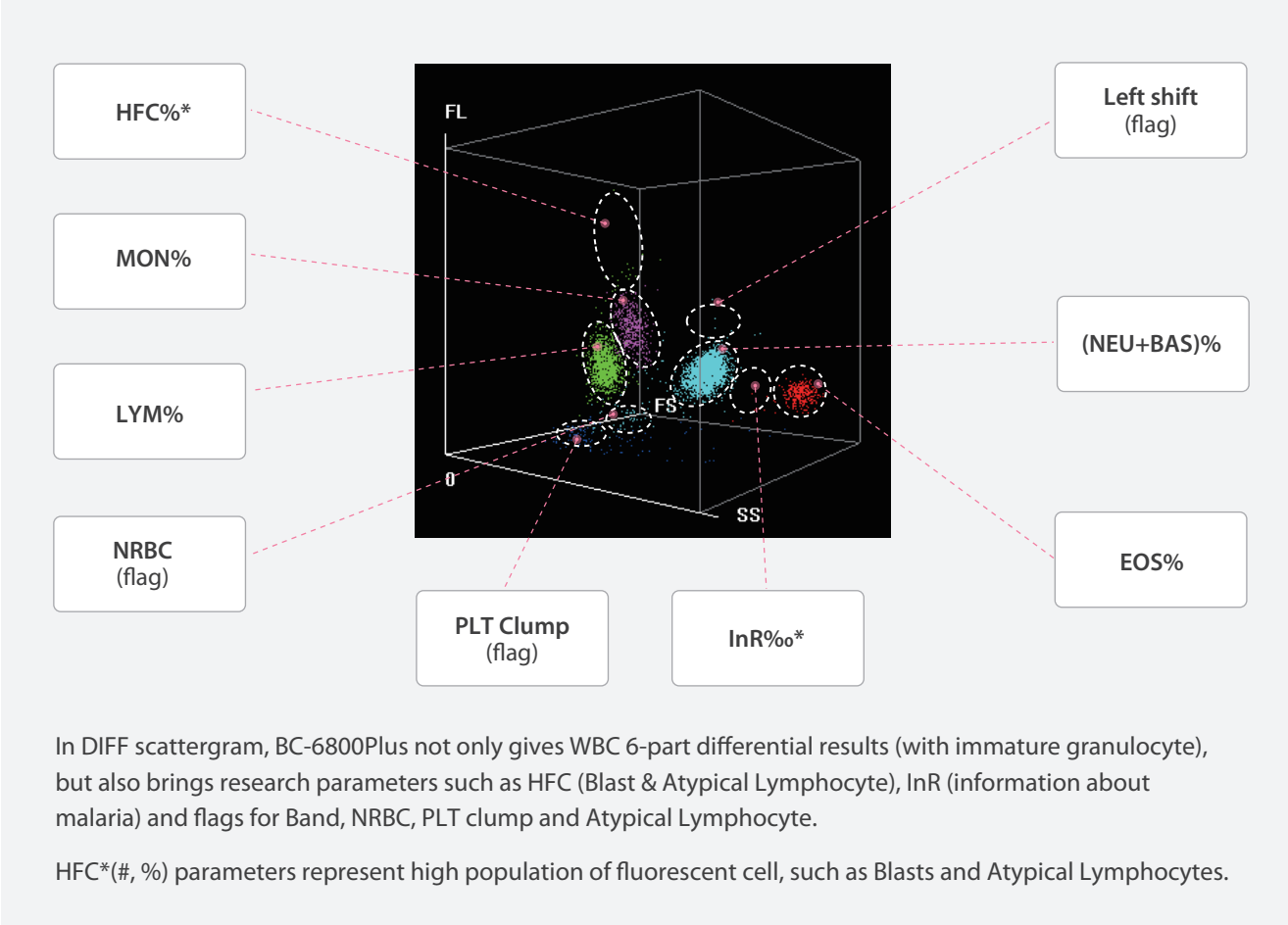


Easy-W ESR Solution

Mindray Technology Brought Reliable ESR Results With Excellent Efficiency



DIFF Channel

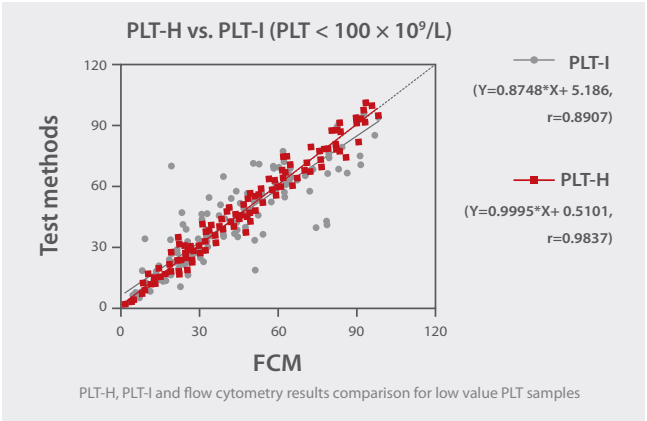


IMG(#, %) parameters provide information about immature granulocytes, including Promyelocytes, Myelocytes, Metamyelocytes, Immature Eosinophils and Immature Basophils.

*For research use only

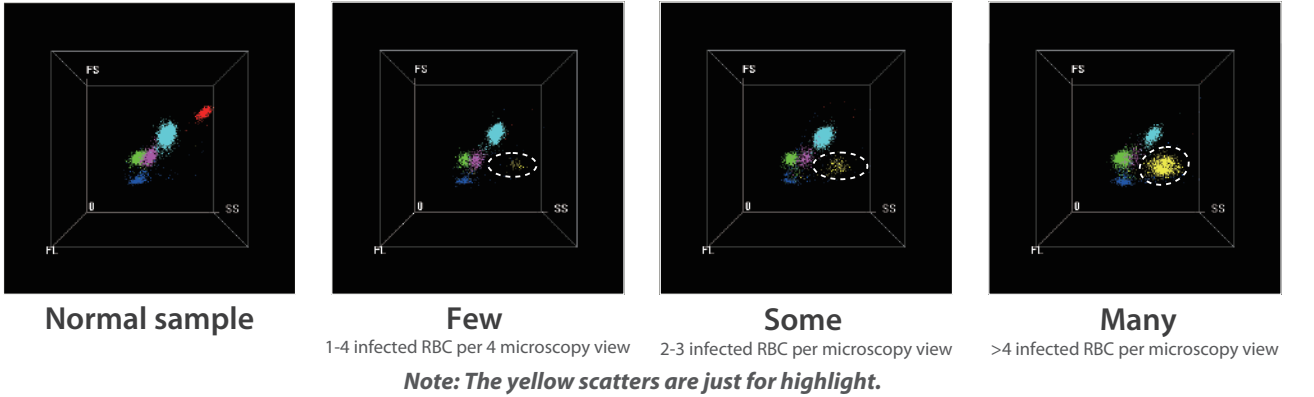
PLT-H Technology – Optimized Balance Between Accuracy and Cost Efficiency

- DIFF and impedance channels are combined to obtain platelet counts.
- No extra reagent cost.
- Resolved the pain point of PLT-I (Impedance) value distortion for samples with low platelet counts, especially under environments where multiple interferences, such as large platelets, erythrocyte fragments etc., are present.
- Dramatically improved correlation between platelet counts value and flow cytometry (FCM, CD41+CD61, as reference method) results – boosted from $r = 0.8907$ to $r = 0.9837$.



Malaria Screening

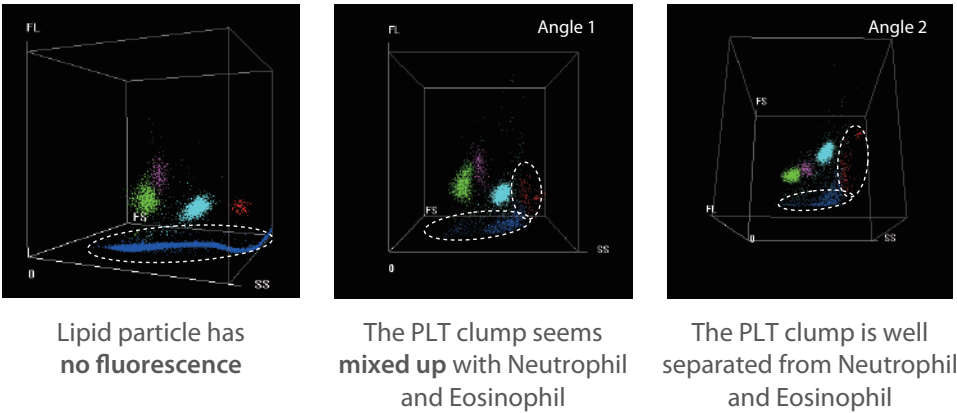
BC-6800Plus provides a dedicated flag called "infected RBC?", and "InR*(#,‰)"parameters to represent the number and ratio of the infected red blood cells in the sample respectively. BC-6800Plus users can obtain information about the possible presence of plasmodium parasite, the causative agent of malaria 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

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.



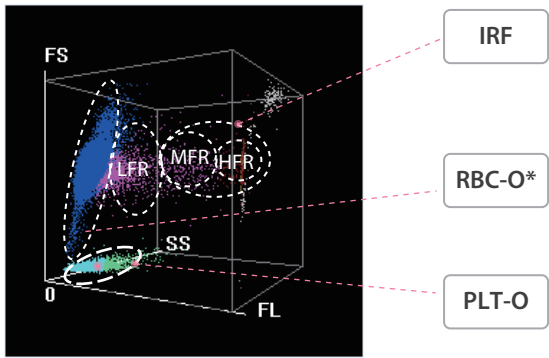
ERP Channel

ERP channel is able to generate 2 three-dimension scattergrams to count Erythrocytes(RBC), Reticulocytes(RET) and Plateletes(PLT) as well as 5 two-dimension scattergrams including RBC SCT, RBC VHF, RET, RET EXT, PLT-O.



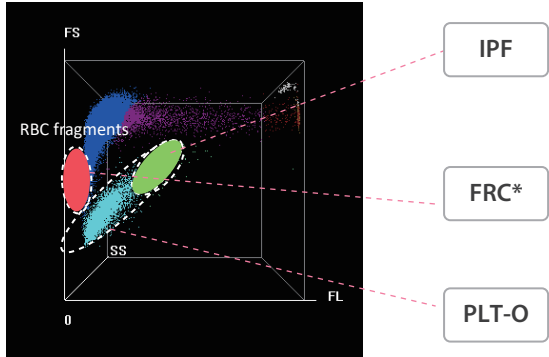
On RBC VHF scattergram, RBCs (blue) & RETs (pink) could be subdivided into 9 regions by cell size and hemoglobin concentration and provide research parameters such as MCHr, HDW, HYPO%*, HYPER%* to assist the diagnosis of iron deficiency anemia. MPC* and MPM* reflect the density and concentration of contents inside PLTs, which signifies the excitation status of platelets in peripheral blood. They provide a new approach to assist the diagnosis of thrombotic diseases, cardiovascular diseases and inflammations.

RET parameters



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-6800Plus provides data concerning immature reticulocytes (IRF), which can assist in early diagnosis of anemia and monitoring the bone marrow response to therapy.

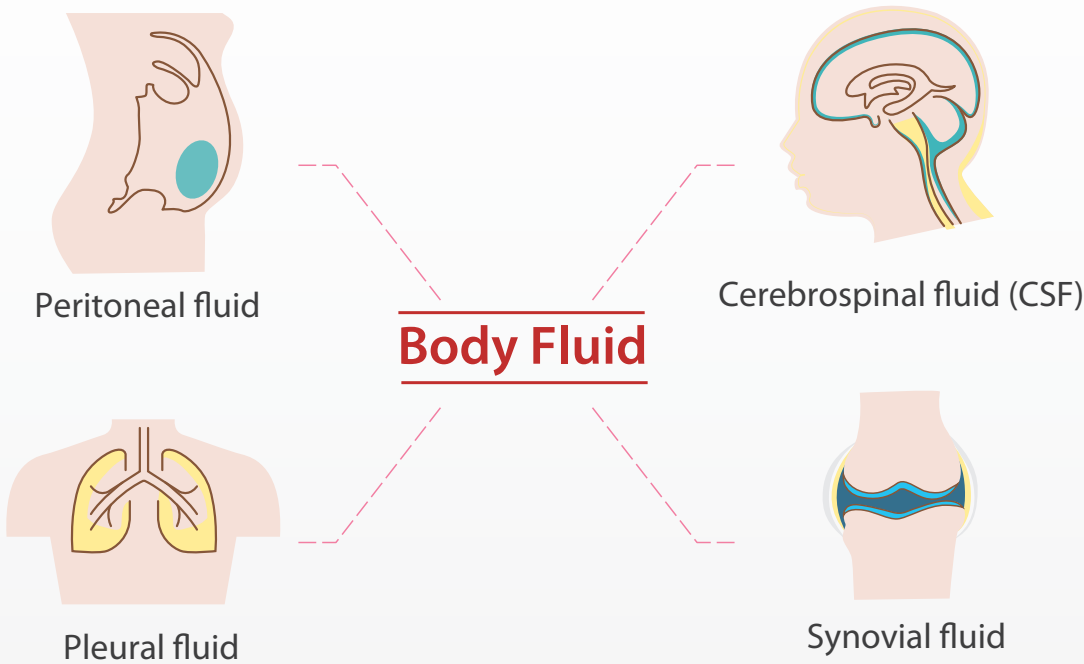
PLT-O & RBC fragments



In ERP channel, PLT-O can prevent the interferences of Fragmented Red Cells(FRC*) and offer more accurate PLT count compared to traditional technology. IPF measures the Immature Platelet Fraction, which can be used to reflect thrombopoiesis capabilities of patients.

Body Fluid

Besides blood specimen, BC-6800Plus 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.



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Applicable to a variety of tubes

To cater to customer's diversified needs, different types of blood collection tubes can be used on BC-6800Plus , including regular whole blood vacuum tube, capillary blood microtainer tube and Sarstedt tube.



More intuitive labXpert software

LabXpert is a standard configuration of BC-6800Plus 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.



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).



Less testing time

BC-6800Plus can load up to 100 samples at a time and offers a throughput of up to 200 tests per hour.



Touch screen

BC-6800Plus can work standalone and has touch screen for basic operation by more intuitive software.

Cost efficiency

PLT-H and associated IPF-D* parameters are generated with DIFF channel, providing perspective reference for clinical uses from a more comprehensive perspective with no extra reagent cost.

