Hemaray 86

5-part Hematology Analyzer

Technical Specifications

Technology

3-D Topographic Map

Integral Titanium Incubation System

Laser Scatter Technology

Flow Cytometry Technology

Cyanide Free Reagents

Autoloader & Close Tube

Random Direction Tube Barcode Scanning Technology(Optional)

Parameters

Regular Parameters:

WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, PDW, MPV, PCT, P-LCR, NEU#, NEU%, LYM#, LYM%, MON#, MON%, EOS#, EOS%, BAS#, BAS%

Research Parameters:

ALY#, ALY%, IG#, IG% 2 histograms, 2 scattergrams

Test Speed:

Autoloader Mode: 60 Samples/hour Close Tube Mode: 60 Samples/hour

Test Mode:

CBC+5DIFF, CBC

Performance

Item	Linear range	Carry over	CV
WBC	1.0-99.9×10 ⁹ /L	≪0.5%	≤2.0%
RBC	0. 3-7.0×10 ¹² /L	≪0.5%	≤1.5%
HGB	20-240g/L	≪0.5%	≤1.5%
PLT	20-999×10 ⁹ /L	≤1.0%	<4.0%



QC and Calibration

Multiple QC rules, including L-J, X-B etc. Auto and manual calibration function for both whole blood mode and pre-diluted blood mode

Power Supply

100V-240V, 50Hz/60Hz

Sampling Mode:

50 tubes, Auto mixing, Autoloader:

Random Direction Tube Barcode Scanning Technology STAT Priority, Support both whole blood Close Tube:

and capillary blood samples

75KG Weight

61cm(L)×76cm(W)×61cm(H) Dimension

Hemaray 86 5-part Hematology Analyzer







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3-D Topographic Maps for WBC

Random Direction Tube Barcode Scanning Technology (Optional)

Laser Scatter Technology

Constant Linear Sheath Flow

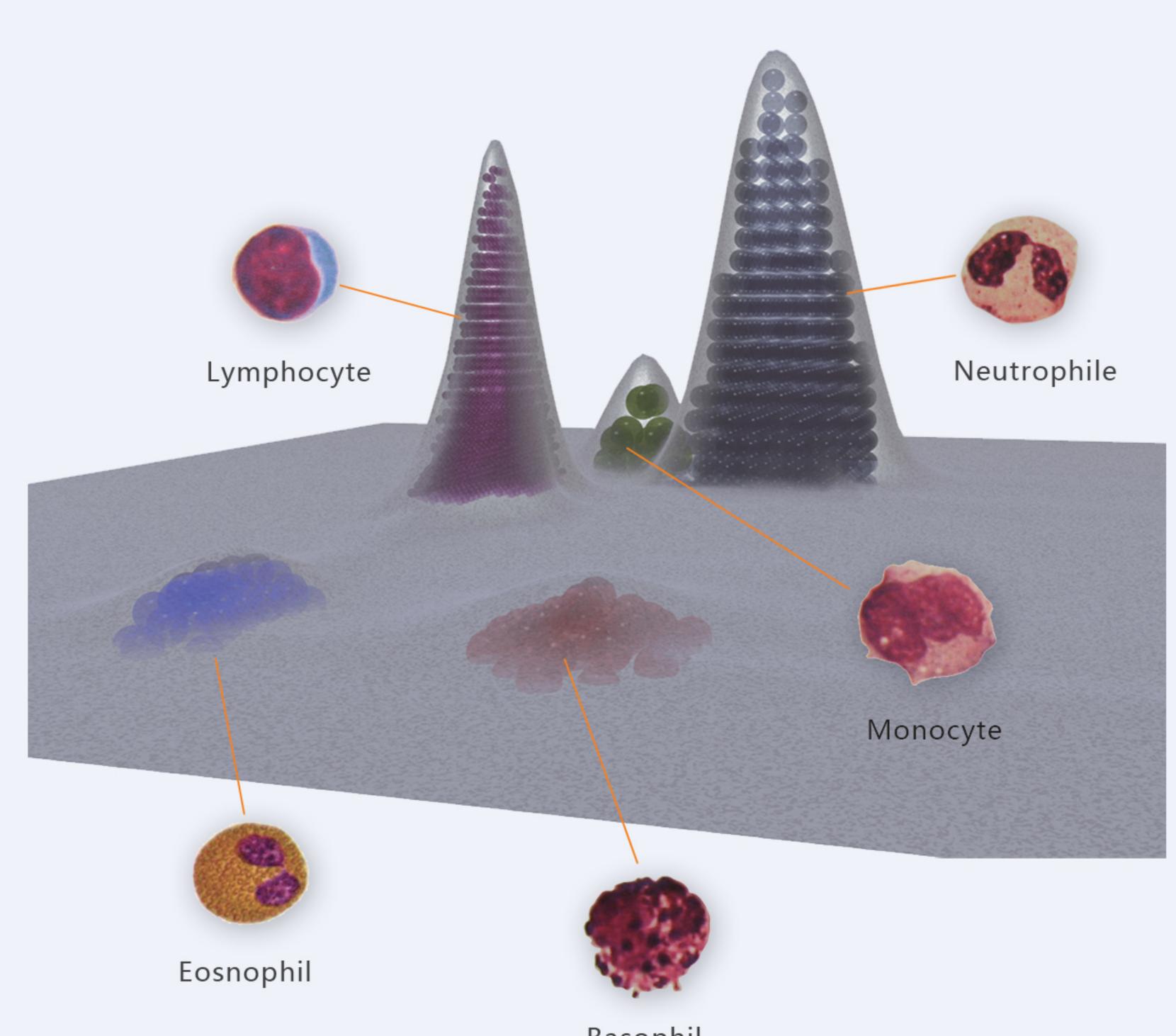




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3-D Topographic Maps for WBC

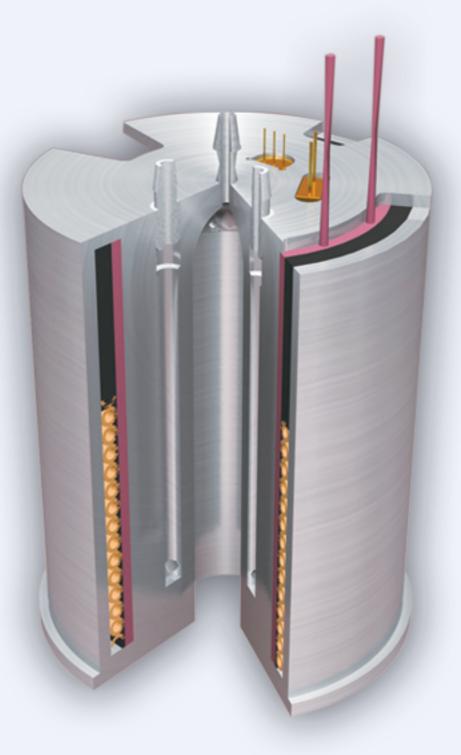
Cytomorphologically, is a useful way of 5-part differentiation of WBC according to the size, complexity and granularity of the cells. The multiple scatter light beams are used to detect the WBC, which named as the 3-D Topographic Map technology. The forward small angle laser beam, the forward large angle laser beam and the lateral laser beam stand for the different properties of the WBC.

Constant Linear Sheath Flow

A most important technology is to ensure the WBC passing the laser beam one by one, when the sheath flow passes the unique designed square counting chamber. As the diameter of the WBC will not be too different from the diameter of the transversal surface of the chamber, the WBC are fixed in the middle of the sheath flow passing the square chamber constantly with a high speed. This Constant Linear Sheath Flow ensures the accuracy of the WBC counting.

Integral Titanium Incubation System

An integrated titanium incubation system is adopted to keep the reagent and the sample in the same constant temperature, which facilitates the complete reaction. This is the key technology to ensure the accuracy of 5-part differentiation.



2 Test Modes

CBC+5Diff mode
CBC mode



2 Sample Modes

Whole blood sample mode

Pre-diluted blood sample mode



User-friendly Software

Data Management

- 100,000 results storage including histogram and scattergram
- Multi print format including self-defined format
- Mean, CV and SD values are caculated
- Statistics including Sample, QC and Calibration
- Sort by sample number, patient name, type, time frame etc.

Easy Maintenance

- Self-check during start up and shut down
- Tubing automatic maintenance
- Adjustable sleeping mode

Multi-warning System

- Reagent inventory check
- Abnormal original data warning
- Multi warning flags

System Setup

- Different levels of permission
- Different reference ranges determined by age and gender

LIS Interface

LIS interface with HL7 protocol



