



VECTOR

UNICORN 5

UNIQUE Solution for 5 Part



**“Cute” “Smart”, Yet the Most Powerful
5 Part Differential Hematology Solution.....**

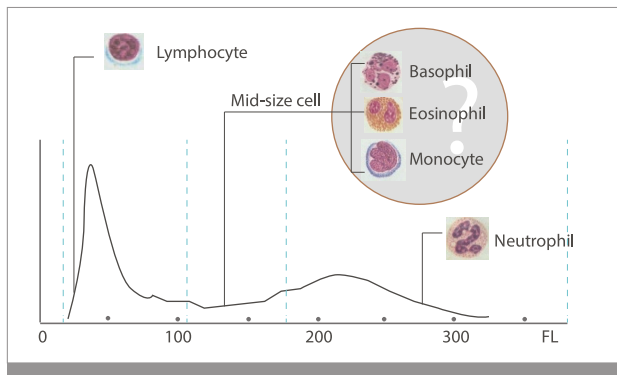
www.vectorbiotekindia.com

TOLL FREE : 1800-270-1027

“Think Hematology ! Think Vector...” VECTOR BIOTEK PVT. LTD.

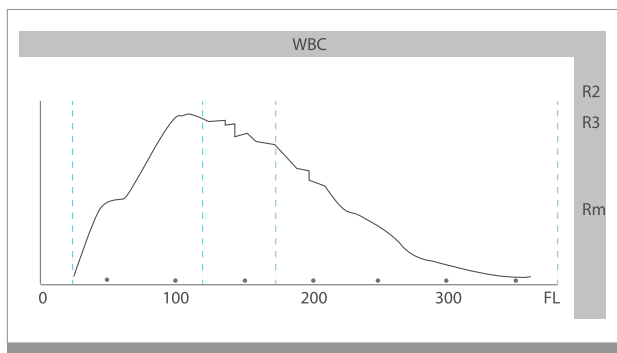
Why do we need 5-part hematology analyzers?

WBC differential: 3-part



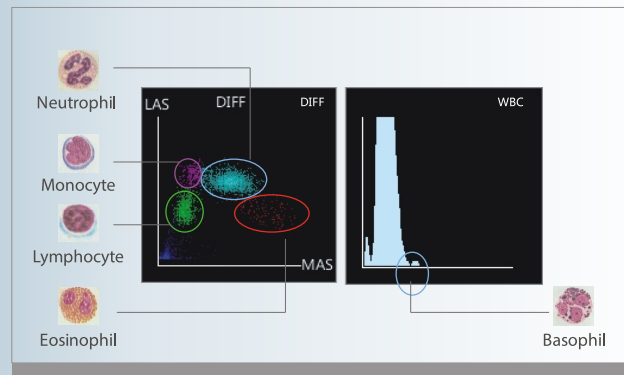
3-part hematology analyzers can not differentiate Basophil, Eosinophil and Monocyte. Additionally, Lymphocyte and Neutrophil results are easily affected by abnormal cells.

Flag information: 3-part



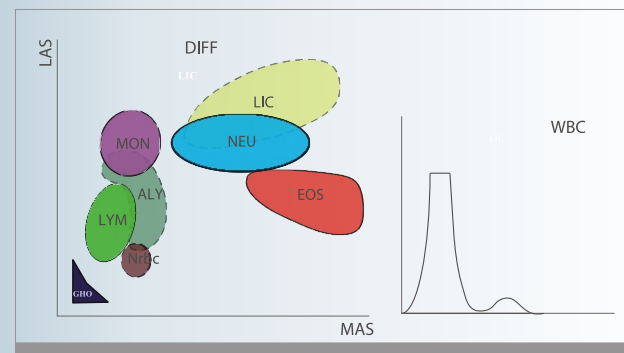
WBC histogram only indicates regional abnormal graph, it can't bring specific flags for different clinical cases.

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: 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.



UNICORN 5

Auto Hematology Analyzer

The innovative UNICORN 5 is especially tailored to assist laboratories while they need full CBC including 5 part differentiation by using lower sample volume in a restricted lab space area, thus making it “Cute” “ Smart”, Yet the Most Powerful Solution....

As the lightest and most compact 5-part hematology analyzer UNICORN 5 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 Vector's customers by providing more accurate, more efficient and more innovative solutions with:

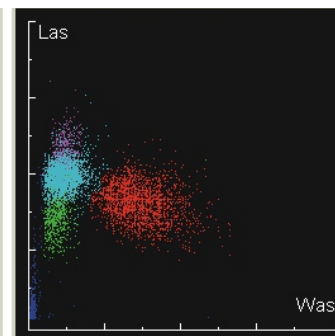
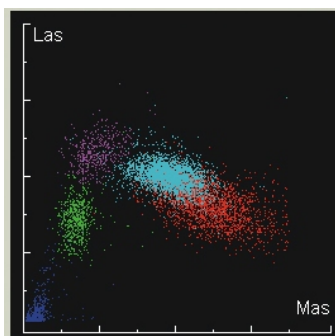
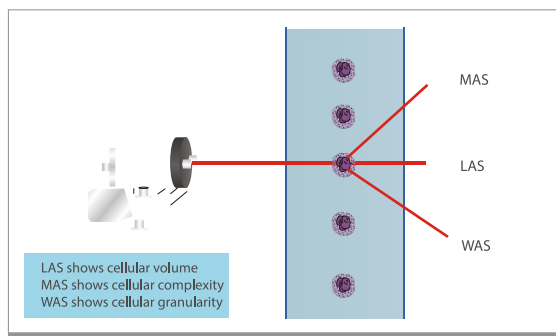
Basic Features Like:

- WBC 5-part differentiation, 25 reportable parameters and 10 research 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 150,000 samples
- Throughput: 60 samples per hour
- Sample volume is only 15 μ L which is ideal for pediatrics



The Innovation that Spearheads:

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



UNICORN 5, the 5-part hematology analyzer offers a great solution for clinical labs, especially for those who have limited space. Its compact foot-print is a result of innovative technology improvements, including miniaturized semi-conductor laser source, highly integrated electronic boards and optimized liquid handling system.



Compact

Two kinds of lyse reagents are located inside of UNICORN 5, which helps the small labs to save space.

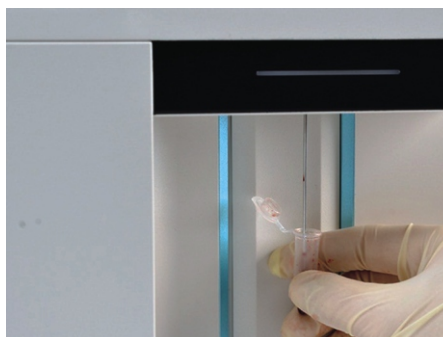


Utility

The 10.4 inch TFT touch screen with a wide viewing angle, brings convenience to clinicians. Users can complete all instrument operations on the screen, practically eliminating the need for an external PC.



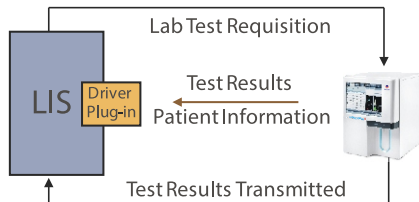
UNICORN 5 offers convenient and proven powerful software design with friendly interface making it ideal for laboratories.



Running capillary blood through the sample probe directly is more convenient for the users in children's hospitals, etc. For Prediluted mode, UNICORN 5 has higher dilution ratio than other 5-part hematology analyzers, thus it brings a better mixing effect.



4 USB ports are located on the instrument's left side. They permit UNICORN 5 users to transmit data conveniently and connect with printers, keyboard, mouse, barcode scanner, etc.

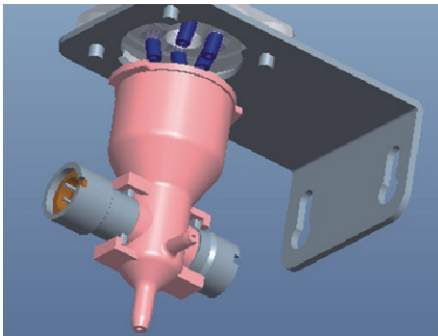


UNICORN 5 supports bi-directional LIS with test results and patient information. HL7 protocol is supported as well.



Technology

Compared with traditional helium neon laser or argon laser, semi-conductor laser has smaller size, lower cost and longer life cycle.



Improved DC impedance technology is used to count and size the RBC and PLT. The smaller counting aperture (50 µm in diameter) provides better performance on samples with low PLT.



Efficient

Only three routine reagents are required. These have 2 years shelf life and also less consumed by UNICORN 5. Original QC and calibrator are also provided upon requirement to ensure the hematology analyzer's traceability and testing quality.

UNICORN 5

Auto Hematology Analyzer

Features:

60 samples per hour
 5-part differentiation, 25 reportable parameters +10 research parameters, 3 scattergrams and 3 histograms
 Laser scatter + Chemical dye + Flow cytometry technology
 Tri-angle laser scatter, have better performance on high Eosinophil sample
 Independent channel and optical method for Basophil measurement

Powerful capability to flag abnormal cells
 Support whole blood mode for capillary sample
 10.4 inch large TFT touch screen
 Large storage capacity: up to 150,000 samples
 Support uni- or bi-directional LIS

Technical Specifications

Principles

Impedance method for RBC and PLT counting
 Cyanide free reagent for hemoglobin test
 Flow Cytometry (FCM) + Laser scatter + Chemical dye method for WBC differential analysis and WBC counting

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, PLT, P-LCR, P-LCC.

10 Research parameters include LIC%, LIC#, ALY%, ALY#, PLT Clumps#, PLT Clumps%, Lip#, Lip%, NRBC#, NRBC%
 3 histograms for WBC, RBC and PLT
 3 scattergrams: 4-differential scattergram and 2 scattergrams for Eosinophil

Reagent

Diluent, DIFF lyse, LH lyse, probe cleanser

Performance

Parameter	Linearity Range	Precision	Carryover
WBC	0-500×10 ⁹ /L	≤2% (4-15×10 ⁹ /L)	≤0.5%
RBC	0-8×10 ¹² /L	≤1.5% (3.5-6.0×10 ¹² /L)	≤0.5%
HGB	0-250g/L	≤1.5% (110 - 180g/L)	≤0.6%
PLT	0-5000×10 ⁹ /L	≤4.0% (100-500×10 ⁹ /L)	≤1.0%

Sample Volume

Prediluted	20 µL
Whole blood	15 µL
Capillary WB blood	15 µL

Throughput

60 samples per hour

Display

10.4 inch TFT Touch Screen

Multi-language

Chinese, English

Data Storage Capacity

Up to 150,000 results including numeric and graphical information

Communication

LAN Port supports HL7 protocol

Interface

USB, LAN, COM
 Support Uni- or bi-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

Depth*width*height: 400mm*320mm*410mm
 Weight: 24kg



Exclusively Marketed in India by:

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