



BeneSphera H33s

Next Generation Hematology Analyzer

Minimum Size,
Maximum Capability



avantora 

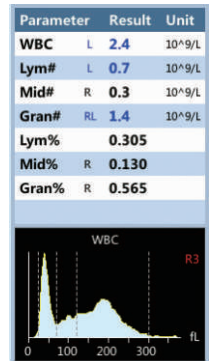
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Next Generation Hematology Analyzer

What a 3-part should be

Avantor's new line of hematology analyzer, BeneSphera H33s is compact yet powerful, full featured yet affordable 3-part analyzer.

Exclusive Feature



Leucopenia
Lymph decreased
Pancytopenia



Detailed flag information never before seen on a 3-part analyzer.

Provides information useful for diagnosis including WBC flag, RBC flag and PLT flag.

Different flag information provided according to parameter results together with histograms.



Sample 1 : BeneSpera H33s shows flags “Leucopenia”, “Lymph decreased”, “Pancytopenia” which mean white blood cell decreased, the low number of Lymphocyte and decrease of leukocyte, erythrocyte and plate count. Meanwhile “R3” flag is also displayed. Two kinds of flag messages are both supported to ensure clinicians have better understanding of sample results.

Sample 2 : Flag “Anemia” means that the sample has the possibility of anemia.

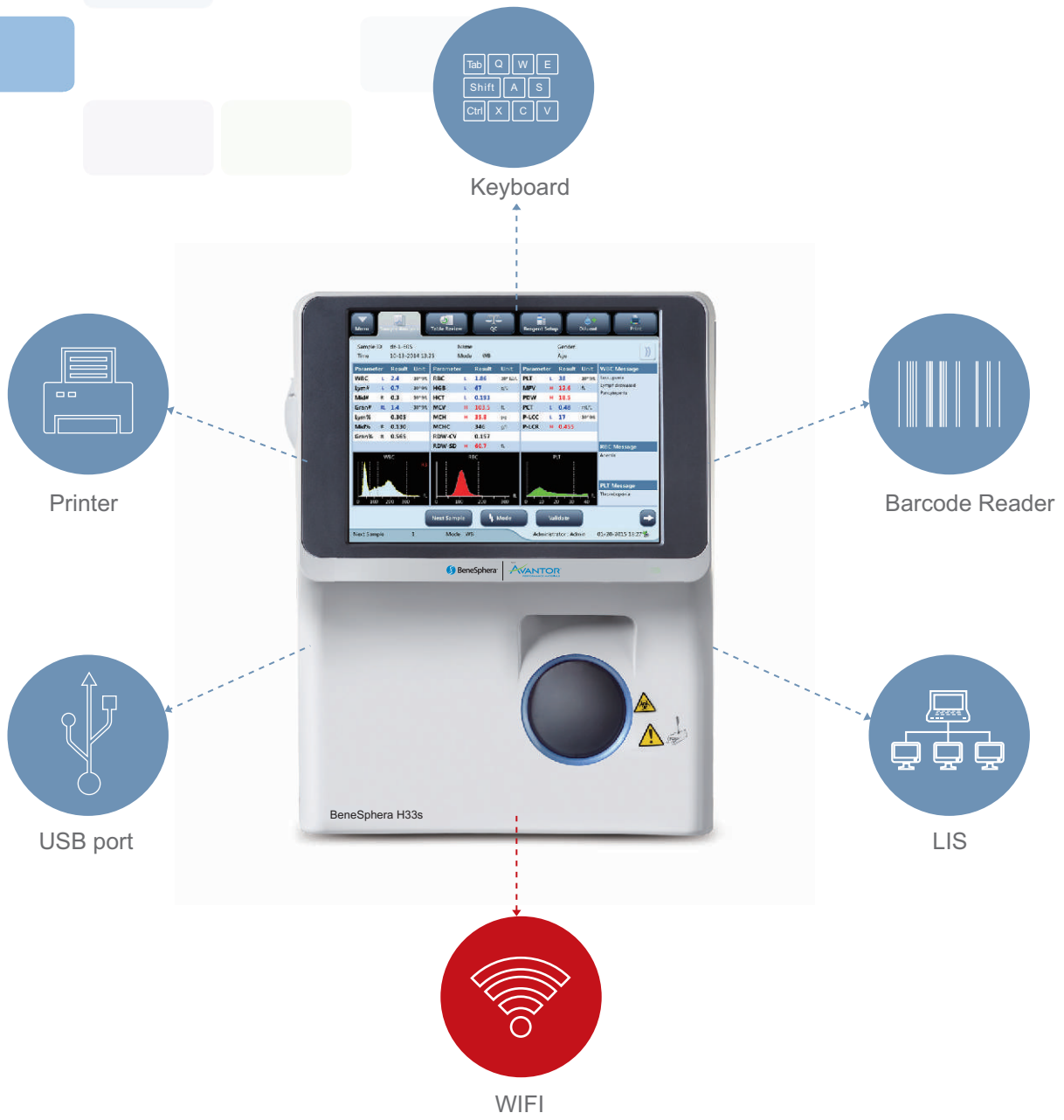
Sample 3 : Flag “Thrombopenia” indicator is shown together with Platelets low flag.

Parameter	Result	Unit
RBC	L 1.86	10 ¹² /L
HGB	L 67	g/L
HCT	L 0.193	
MCV	H 103.5	fL
MCH	H 35.8	pg
MCHC	346	g/L
RDW-CV	0.157	
RDW-SD	H 60.7	fL

Anemia

Parameter	Result	Unit
PLT	L 38	10 ⁹ /L
MPV	H 12.6	fL
PDW	H 18.5	
PCT	L 0.48	mL/L
P-LCC	L 17	10 ⁹ /L
P-LCR	H 0.455	

Thrombopenia



WIFI capability provides user an added option for data communication together with bi-directional LIS, USB port and LAN port, barcode reader, printer and keyboard.



Better Usability



Minimum size with the footprint similar to that of a 17 inch laptop, with space saving design that allows internal storage of lyse giving small labs more space.

10.4 inch TFT touch screen together with our powerful software enhances user operations and experience.



New technology that eliminates the need for cleanser and rinse, reducing the number of reagents needed while at the same time lowering overall reagent consumption.

Flexible packaging of reagents, with normal and small sizes to better cater to the needs of different daily sample volumes.

Enhanced Performance

Higher throughput at 70 tests per hour.



Micro sample volume at 9.0uL for whole blood mode with capillary whole blood samples supported, perfect for pediatric samples.

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Technical Specifications

Principle			
Impedance method for WBC, RBC and PLT counting			
Cyanide free reagent for hemoglobin test			
Performance			
Parameter	Linearity Range	Precision (CV %)	Carryover
WBC($10^9/L$)	0-200	3.5% (4.0-6.9) 2.0% (7.0 -15.0)	0.5%
RBC($10^{12}/L$)	0-8.00	1.5% (3.5-6.5)	0.5%
HGB(g/L)	0-280	1.5% (100 -180)	0.5%
MCV(fL)		1.0% (70 -110)	
PLT($10^9/L$)	0-4000	5.0% (100 -149) 4.0% (150 -500)	1.0%
Parameters			
21 parameters: WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR,P-LCC			
3 histograms for WBC, RBC and PLT			
Reagent			
BeneSphera DILUENT			
BeneSphera FL LYSE			
BeneSphera PROBE CLEANSER			
Sample Volume			
Prediluted mode	20 μ L		
Whole blood mode	9 μ L		
Throughput			
70 samples per hour			
Display			
10.4 inch TFT Touch Screen			

Multi-language
Chinese, English, Spanish, Portuguese, Russian, French, Bahasa Indonesia
Data Storage Capacity
Up to 500,000 results including numeric and graphical information
Communication
LAN Port supports HL7 protocol
Support bi-directional LIS
Interface
4 USB port (for external printer, software upgrade, barcode reader, WIFI adapter, keyboard and mouse), LAN port (1)
Printout
Thermal recorder, 50 mm wide paper, various printouts formats
External printer optional
Operating Environment
Temperature: 10°C~40°C
Humidity: 10%~90%
Air pressure: 70kPAN106kPa
Power Requirement
100V-240V
300VA
50Hz/60Hz
Dimension and Weight
Dimension: Depth(410 mm) x width(300 mm) x height(400 mm)
Weight: 20Kg

ISO Phillipsburg, NJ 9001:2008 & 14001:2004
 Paris, KY 9001:2008
 Mexico City, Mexico 9001:2008
 Deventer, the Netherlands 9001:2008, 14001:2004 & 13485:2003

Gliwice, Poland 9001:2008 & 17025:2005
 Selangor, Malaysia 9001:2008
 Dehradun, India 9001:2008, 14001:2004 & 13485:2003
 Mumbai, India 9001:2008 & 17025:2005

About Avantor™

Avantor is a global supplier of ultra-high-purity life sciences materials with strict regulatory and performance specifications. Avantor's products are manufactured and marketed around the world under several respected brand names including J.T.Baker®, NuSil™, Macron Fine Chemicals™, Rankem®, BeneSphera™, CareSil and POCH™ brands.

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