

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



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



Higher throughput at 70 tests per hour.

BeneSphera H33s

Next Generation Hematology Analyzer

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	$\leq 3.5\%$ (4.0-6.9) $\leq 2.0\%$ (7.0 -15.0)	$\leq 0.5\%$
RBC($10^{12}/L$)	0-8.00	$\leq 1.5\%$ (3.5-6.5)	$\leq 0.5\%$
HGB(g/L)	0-280	$\leq 1.5\%$ (100 -180)	$\leq 0.5\%$
MCV(fL)		$\leq 1.0\%$ (70 -110)	
PLT($10^9/L$)	0-4000	$\leq 5.0\%$ (100 -149) $\leq 4.0\%$ (150 -500)	$\leq 1.0\%$
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 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:	70kPa~106kPa		
Power Requirement			
100V-240V			
$\leq 300VA$			
50Hz/60Hz			
Dimension and Weight			
Dimension:	Depth(410 mm) x width(300 mm) x height(400 mm)		
Weight:	$\leq 20Kg$		



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™ Performance Materials

Avantor Performance Materials manufactures and markets high-performance chemistries and materials around the world under several respected brand names, including the J.T.Baker®, Macron Fine Chemicals™, Rankem®, BeneSphera™ and POCH™ brands.

Avantor products are used in a wide range of industries. Our biomedical and life science solutions are used in pharmaceutical production, laboratory research for academic, industry and quality control, and in medical lab testing. Our electronics materials products are used in the manufacturing of semiconductors.

For additional information please visit www.avantormaterials.com or follow [www.twitter.com/avantor_news](https://twitter.com/avantor_news)

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BeneSphera H33s

Next Generation Hematology Analyzer

Minimum Size, Maximum Capability



BeneSphera H33s

Next Generation Hematology Analyzer

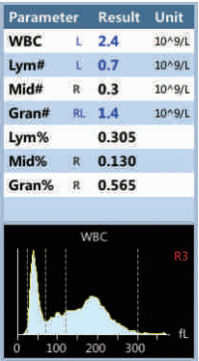
What a 3-part should be

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

Exclusive Feature



Detailed flag information never before seen on a 3-part analyzer. Provides information useful for diagnosis including WBC flag, RBC flag and PLT flag.

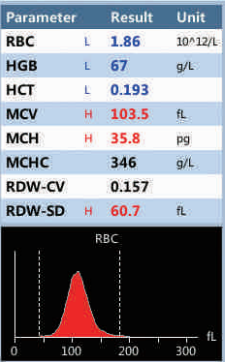


Leucopenia
Lymph decreased
Pancytopenia

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

Sample 1 : BeneSphera 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.

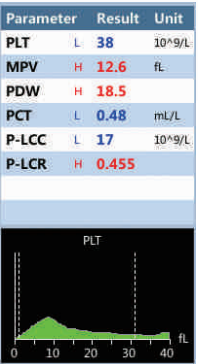
Sample 2 : Flag “Anemia” means that the sample has the possibility of anemia.



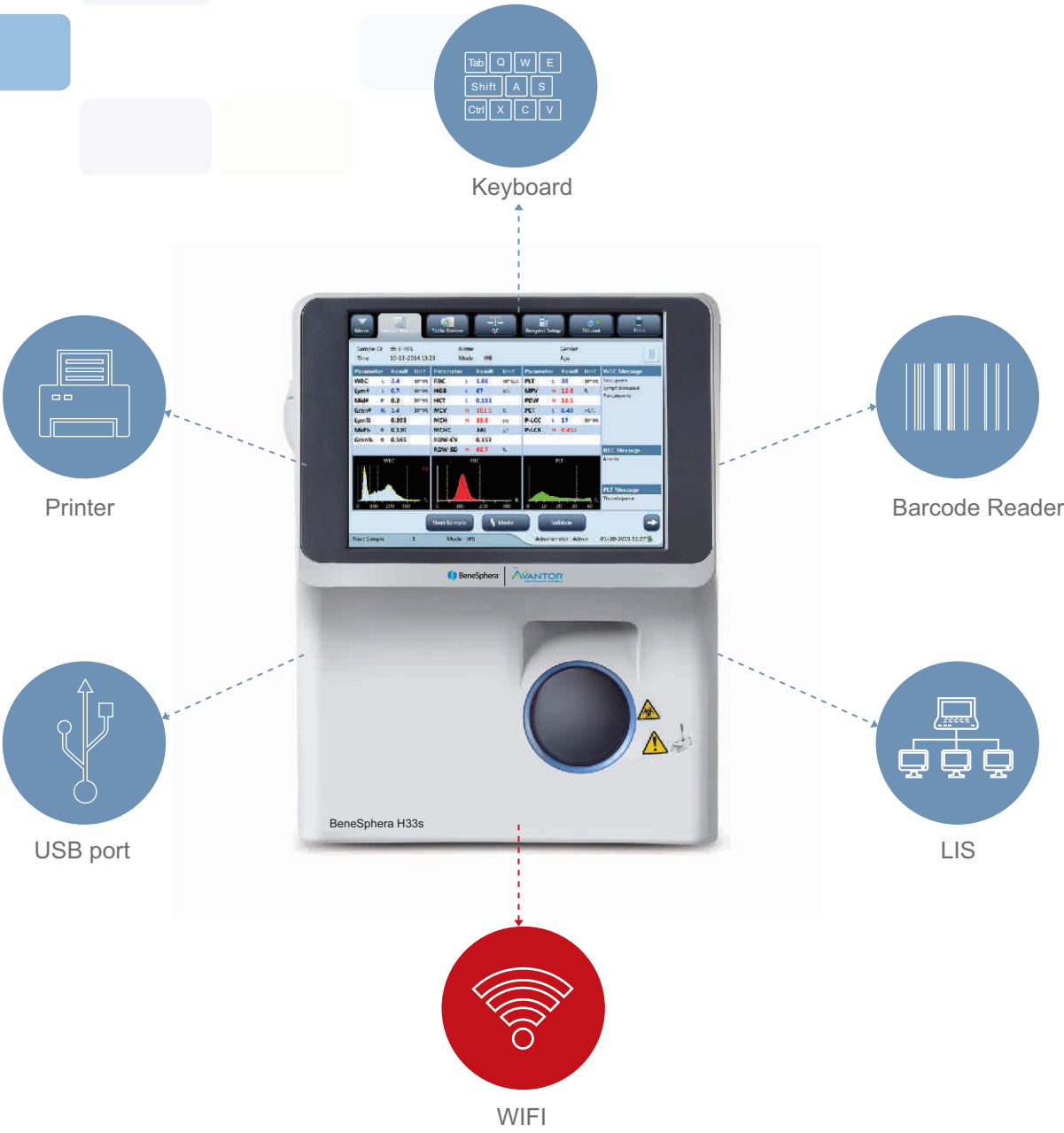
Anemia



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



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.

