

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:	70kPAN106kPa
Power Requirement	
100V-240V $\leq 300VA$ 50Hz/60Hz	
Dimension and Weight	
Dimension: Depth(410 mm) x width(300 mm) x height(400 mm) Weight: $\leq 20Kg$	



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™ 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.

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Minimum Size,
Maximum Capability



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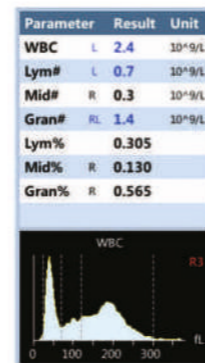
What a 3-part should be

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.

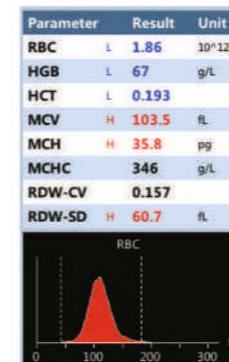


Leucopenia
Lymph decreased
Pancytopenia

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.

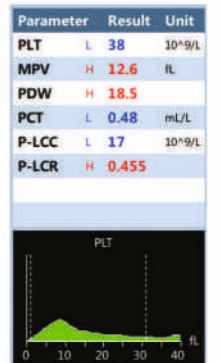
Sample 2 : Flag "Anemia" means that the sample has the possibility of anemia.



Anemia



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



Thrombopenia