

BeneSphaera 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	<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

BeneSphaera DILUENT
BeneSphaera FL LYSE
BeneSphaera 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
<300VA
50Hz/60Hz

Dimension and Weight

Dimension: Depth(410 mm) x width(300 mm) x height(400 mm)
Weight: <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®, BeneSphaera™ 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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abaxis healthcare

BeneSphaera 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.

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.

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

