

H31 PLUS Technical Specifications

PRINCIPLE

Impedance method for WBC, RBC and PLT counting

Cyanide free reagent for Hemoglobin test

PARAMETERS

20 parameters: WBC, Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR

3 histograms for WBC, RBC and PLT

2 research parameters: NLR, PLR

REAGENT

BeneSphera Diluent, BeneSphera Lyse, BeneSphera Probe Cleanser

DATA STORAGE CAPACITY

Up to 100,000 results including numeric and graphical information

SAMPLE VOLUME

Prediluted Mode $\leq 20 \mu\text{l}$

Whole Blood Mode $\leq 9 \mu\text{l}$

OPERATING ENVIRONMENT

Temperature : $15^{\circ}\text{C} - 30^{\circ}\text{C}$

Humidity : 10% - 90%

Air Pressure : 70kPa-106kPa

COMMUNICATION

LAN Port supports HL7 protocol

Support bi-directional LIS

DISPLAY

10.4 inch TFT Touch Screen

THROUGHPUT

Up to 40 samples per hour

PRINTOUT

Thermal recorder, 50 mm wide paper, various printouts formats

INTERFACE

4 USB ports (for external printer, software upgrade, barcode reader, external WIFI, keyboard and mouse), LAN port (1)

DIMENSIONS

Depth (410mm) X width (300mm) x height (400mm)

Weight $\leq 20 \text{ kg}$

POWER REQUIREMENT

(100-240V) $\pm 10\%$

180VA

(50HZ/60HZ) $\pm 1\text{HZ}$

H31 Plus 3 Part Differential Hematology Analyzer

Minimum Size, Maximum Capacity



H31 PLUS

3 Part Differential Hematology Analyzer

Quantitative hematology analysis and 3 part differential counting for in vitro use in your laboratory. The advanced BeneSphera H31 Plus Hematology Analyzer supports identification of normal patients with system generated parameters and flags patient results that require your attention.

Confidence in results

Advanced detailed flag information provides warning in case of abnormal cell results. High quality BeneSphera Hematology reagent support your work at a high level. We integrate technologies into our products to fulfill your clinical

needs, therefore, today, Avantor products and services are used by healthcare facilities across regions. More and more customers choose Avantor products and trust Avantor's quality.

More time to work

Smart and intuitive software bring your productivity to a new level.

The 10.4 inch TFT touch screen makes operations easy and flexible, maximizing your productivity.

The incredible 100,000 storage capacity gives you a worry-free solution to managing previous patients' data.

The smart software can detect and remove operational errors, as well as run automatic maintenance with a single click.

- CBC + DIFF , 22 paramters , 3 Histograms
- Throughput upto 40 samples / hour
- 10.4 inch TFT touch screen
- Only three reagents needed
- Detailed flag information
- Large storage capacity upto 100,000 samples
- Sample volume is only 9ul which is ideal for pediatric samples

High Performance

The analyzer uses the electrical impedance method to determine the count and size distribution of RBC, WBC and PLT;

It uses the colorimetric method to determine HGB.

Based on the above data, the analyzer calculates other parameters thus improving the performance of your lab results.



PARAMETER	LINEARITY RANGE	LINEARITY RANGE	CARRYOVER
WBC(10 ⁹ /L)	0-100	≤3.5% (4.0-6.9) ≤2.0% (7.0-15.0)	≤0.5%
RBC(10 ¹² /L)	0-8.00	≤2.0% (3.50-6.5)	≤0.5%
HGB(G/L)	0-280	≤1.5% (100-180)	≤0.5%
MCV(fL)		≤1.0% (70.0-110.0)	≤0.5%
PLT(10 ⁹ /L)	0-1000 ≤5.0%	(100-500)	≤1.0%

Less Downtime

Quality and user experience are our top priorities. We design and manage our manufacturing processes in compliance with FDA, ISO and CE. Complete quality control systems in Avantor's manufacturing source ensure we exceed the

most stringent criteria and traceability throughout the entire process. Our professional and responsive support team makes sure your systems are kept at full capability.

