



Auto Hematology Analyzer- 10.4" Screen (3 Diff, 22 Parameters)



HP-HEMA6100

General Information:

Analyzer Packing Dimension(mm):530*466*595mm, NW:20kg, GW: 24kg

Free Reagents packing : 360*300*280mm, NW:7KG, GW: 8KG

Model	Screen size (inch)	Puncture	Storage	Graphical Touch Screen	Power
HP-HEMA6100	10.4	None	20K	NO	50Hz±3Hz

Add.:No.126 Wenhua Road,Jinshui District,Zhengzhou,China 450002



Tel:0086-371-55022581 Skype:hepomed

Mail: service@hepomedical.com

Web:http://www.hepomedical.com

**Specifications**

Test Items	WBC, LY#, MO#, GR#, LY%, MO%, GR%, HGB, RBC, HCT, MCV, MCH, MCHC, RDW—CV, RDW—SD, PLT, PCT, MPV, PDW, WBC Histogram, RBC Histogram, PLT Histogram		
Background Count	WBC: $\leq 0.3 \times 10^9/L$ RBC: $\leq 0.03 \times 10^{12}/L$ HGB: $\leq 1g/L$ PLT: $\leq 10 \times 10^9/L$		
Linearity	Test Item	Test Range	Allow Difference of Linearity
	WBC	0 ~ $6.0 \times 10^9/L$	$\pm 0.3 \times 10^9/L$
		6.0 ~ $99.9 \times 10^9/L$	$\pm 5\%$
	RBC	0 ~ $0.99 \times 10^{12}/L$	$\pm 0.05 \times 10^{12}/L$
		1.0 ~ $9.99 \times 10^{12}/L$	$\pm 5\%$
	HGB	0 ~ 99 g/L	$\pm 2g/L$
100 ~ 300 g/L		$\pm 2\%$	
PLT	0 ~ $99 \times 10^9/L$	$\pm 10 \times 10^9/L$	
	100 ~ $999 \times 10^9/L$	$\pm 10\%$	
Repeatability	Test Item	CV(%)	Test Range
	WBC	≤ 2.0	$7.0 \sim 15.0 \times 10^9/L$
	RBC	≤ 0.5	$3.5 \sim 6.0 \times 10^{12}/L$
	HGB	≤ 1.5	110 ~ 180g/L
	PLT	≤ 4.0	$150 \sim 500 \times 10^9/L$
MCV	≤ 0.5	80 ~ 110fL	
Sample Volume	Twig blood: 20 μ l		
Dilution Ratio	WBC/HGB: 1:500 RBC/PLT: 1:50000		
Interfaces	RS232 joint, USB, PS2, Parallel port		
Test Speed	60 samples/hours		
Continuous Work Time	>8h		

Quality and Standard Production Process:

Add.:No.126 Wenhua Road,Jinshui District,Zhengzhou,China 450002



Tel:0086-371-55022581 Skype:hepomed

Mail: service@hepomedical.com

Web:http://www.hepomedical.com



I Name and the using range

The name of the machine is HP-HEMA6100 Automatic Hematology Analyzer, which mainly used to detect the parameters of the series of red blood cells and hemoglobin, platelet and leukocyte in the blood, It is a vitro diagnostic equipment which is applied to quantitative analysis of blood cells of clinical and laboratory.

The machine is mainly used for the quantitative measurement of the blood in the 19 parameters and 3 histograms:

Haematology Analyzer
Fully automated to increase productivity
3-part differential cell counter with 22 parameter and laser light source
Direct tube sampling from original collection vials for operator safety
Bar code capability to reduce manual input
Proven technology to provide accurate results
More than 60 samples per hour
Minimum maintenance required

1	The total amount of WBC	WBC
2	The amount of Lymphocyte	Ly#
3	The amount of Monocyte	MO#
4	The amount of Granulocyte	GR#
5	Lymphocyte percentage	Ly%
6	The percentage of mononuclear cells	MO%
7	Granulocyte percentage	GR%
8	The total amount of red blood cells	RBC
9	Hemoglobin	HGB
10	Hematocrit	HCT
11	Mean volume of red blood cells	MCV
12	Mean corpuscular hemoglobin	MCH
13	Mean corpuscular hemoglobin concentration	MCHC
14	Red blood cell volume distribution width Coefficient of variation	RDW-cv
15	The standard deviation of red blood cell volume distribution width	RDW-sd
16	The total amount of platelet	PLT
17	Mean platelet volume	MPV
18	Plateletcrit	PCT

Add.:No.126 Wenhua Road,Jinshui District,Zhengzhou,China 450002



Tel:0086-371-55022581 Skype:hepomed

Mail: service@hepomedical.com

Web:http://www.hepomedical.com



19	Platelet distribution width	PDW
20	White blood cell distribution histogram	WBC Histogram
21	Red blood cell distribution histogram	RBC Histogram
22	Platelet distribution histogram	PLT Histogram

II Product classification

Instrument classification standard description:

According to Chinese medical device management:

It belongs to the blood analysis systems of the clinical tests and analysis equipment (6840), Management Category is class II. Classified by electric shock protection: Transient overvoltage category II, the level of rated pollution is level 2.

Classified by working system: continuous operation equipment.

Equipment structural classification:

Model	Structure and Function
HP-HEMA6100	10.4-inch 640 × 480-TFT color LCD display, panel-type thermal printer, mask button, built-in common sampling and diluting (store 20000 data)
XFA6100	8-inch 800 × 600-TFT color LCD display, panel-type thermal printer, mask button, built-in common sampling and diluting (storage 10,000 data)

III Parameters:

- 1. Use impedance method for RBC and platelet count
- 2. Cyanide free for Haemoglobin test
- 3. Flow cytometry + laser light scatter + chemical dye method for WBC differential analysis
- 4. Fully automated with an autoloader and sampler
- 5. Should use both closed tube sampling and open tube sampling
- 6. 2 counting mode, whole blood and pre-diluted mode
- 7. With histograms and scattergrams for differential results
- 8. Throughput of at least 60 samples per hour
- 9. Automatic flagging system for abnormal results and automatic sample re-run
- 10. Automatic validation of results on a dedicated PC with at least a 10.4" colour monitor
- 11. Data storage capacity of at least 20,000 results
- 12. Optional integrated slide maker and on-board cytology atlas
- 13. Optional colour printer an on-board diagnostics

Add.: No.126 Wenhua Road, Jinshui District, Zhengzhou, China 450002



Tel: 0086-371-55022581 Skype: hepomed

Mail: service@hepomedical.com

Web: <http://www.hepomedical.com>



- 14.Flexible communication/connection (USB)
- 15.Operating temperature of 10 °c -35°c and humidity of up to 85%
- 16. Floppy disc drive and DVD writer
- 17. Power 98V-264V
- 18. The equipment should be accompanied with all manufacturers' recommended spare parts

IV Principle of cell counts

The instrument measured blood can be diluted to the exact proportion by the diluent firstly, which is used to measure the parameters of WBC、RBC、PLT and HGB.WBC, RBC count pool diluted samples pass their own porous counting respectively under negative pressure, the amount of fluid that flowing through the small hole is the specimen volume of the instrument for analysis.

The instrument measured the size distribution and number of WBC, RBC and PLT by using impedance method. Electrodes inserted in the holes on both sides of the liquid, it sets up a field environment on both sides of the surrounding count microporous, according to the blood-cell non-conductive nature, when the cells passed the count microporous, it will cause impedance changes, the size of the impedance changes and proportional to the cell volume.

Consumables usage of HP-HEMA6100 Auto Hematology Analyzer

Item	Sequence	Dilution(ml)	Hemolysin(ml)	Cleaning Solution (ml)	Frequency of use
1	Start up cleaning	70	5	None	More than one time per day
2	Once Measuring	30	1	None	The amount of a specimen
3	Auto Cleaning	80	5	15	Cleaning one time per default 20 samples
4	Power Off Cleaning	80	5	15	More than one time per day
5	Eliminate jam / Cleaning	20	None	None	Generally do not use,only Eliminate jam use
6	Replacement or Perfusion	12	4	None	Generally do not use,only use when replace the reagents
7	Probe cleaning solution used once every 100 times, once consumed 1.1ml				Regular use ,recommend 100 samples per time

Add.:No.126 Wenhua Road,Jinshui District,Zhengzhou,China 450002



Tel:0086-371-55022581 Skype:hepomed

Mail: service@hepomedical.com

Web:http://www.hepomedical.com



Use Cost of HP-HEMA6100 Auto Hematology Analyzer

Consumes	Specification	Unit Price/EXW(USD)	Number of users(20 per day)	Number of users(100 per day)
Hemolysin	500ml/box,2 bottles	84.43	280	430
Dilution	20L/bucket	12.66	480	620
HB dense enzymatic cleaning solution	1L/bucket	15.48	660	1100
Probe Cleaning Solution	50ml/bottle	7.04	1800	1800
Printing Paper	1roll	1.41	60	60
Takeblood Consumables	1 set	0.04	1	1

Free Reagent Supplied For HP-HEMA6100

Number	Name	Specification	Quantity
01	Non-cyanogen Hemolysin	500ml/bottle	1
02	Diluent	20L/barrel	1
03	Washing Solution (contain Enzyme)	1L/barrel	1
04	Probe Cleaning Solution	50ml/bottle	1

Add.:No.126 Wenhua Road,Jinshui District,Zhengzhou,China 450002



Tel:0086-371-55022581 Skype:hepomed

Mail: service@hepomedical.com

Web:http://www.hepomedical.com