AMP Accos 580 - Hematology Analyzer

Fully Automated

Leukocyte Differentiation

at its Best

Leukocyte

... Amazingly Simple

and Cost Efficie

AMP Accos 580 is a fully automated hematology analyzer applying modern semiconductor laser technology for accurate and precise differentiation of leukocytes in the routine hematology laboratory.

A total of 29 parameters and various histo- and scattergrams are reported from a sample volume of 20 µL only entered either via the continuously loading rack sampler or the manual sample needle.

Sample reports can be easily customized to meet individual requirements and a wide range of adjustable alarm settings support convenient interpretation of the test results. Rerun of pathological samples can be automated.

Automated barcode scanning of sample or patient ID and bi-directional LIS connection enable smooth integration of the analyzer in a modern laboratory environment.

Differentiation

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Efficient Sample Processing

- Continuously loading rack sampler with a capacity of 60 samples
- Efficient sample mixing prior to analysis
- Manual entry of STAT samples
- Low sample volume of 20 µL only
- Automated processing of 80 samples / h

Smart Technology Applied

- Modern semiconductor laser technology for leukocyte differentiation
- Intelligent floating threshold technology for impedance channels
- Enhanced system self-test functions
- Automatic test re-run function
- Automated standby and wake-up function

Enhanced Data Management Functionality

- Up to 100.000 patient results including scattergrams, histograms and patient demographics
- Customizable sample reports
- Dedicated calibration and QC management

AMP Accos 580

Fully Automated 5-part Differential Hematology Analyzer

Parameters

•	WBC	White Blood Cells (leukocytes)
•	LYM	Lymphocytes (# and %)
•	MON	Monocytes (# and %)
•	NEU	Neutrophile Granulocytes (# and %)
•	EOS	Eosinophile Granulocytes (# and %)
•	BAS	Basophile Granulocytes (# and %)
•	RBC	Red Blood Cells (erythrocytes)
•	HGB	Hemoglobin
•	HCT	Hematocrit
•	MCV	Mean Corpuscular Volume
•	MCH	Mean Cell Hemoglobin
•	MCHC	Mean Cell Hemoglobin Concentration
•	RDW-CV	Red Cell Distribution Width (cv)
•	RDW-SD	Red Cell Distribution Width (sd)
•	PLT	Platelets (thrombocytes)
•	MPV	Mean Platelet Volume
•	PDW	Platelet Distribution Width
•	PCT	Plateletcrit
•	P_LCR	Large Platelet Percentage
•	P-LCC	Platelet Large Cell Count
•	ALY	Atypical Lymphocytes (# and %)
•	LIC	Large Immature Cells (# and %)

Dedicated Reagents

AMP HemoDil A 5-S (20 L)
AMP HemoLyse A 5-1 (500 mL)
AMP HemoLyse A 5-2 (500 mL)
AMP HemoLyse A 5-3 (1 L)
AMP HemoClain A 5-S (50 mL)

Control Blood: AMP HemoTrol 5D

System Specifications

Dimensions:	W 650 x D 610 x H 550 mm, 59 kg
Power supply:	100 - 240 VAC, ≤ 250 VA, 50/60 Hz
Environment:	10° to 30°C, rel. humidity ≤ 85 %

Measuring Principle and Calibration

Principle:	Impedance Counting	
	WBC aperture:	100 µm
	RBC / PLT aperture:	70 µm
Leukocyte differentation:	Flow cytometry, 3 angle SC laser scatter	
Hemoglobin:	Photometric detection (LED 525 nm)	
	Cyanide-free lysing reagent	
Test modes:	CBC only or CBC + DIFF	
Calibration:	Automatic or manual, calibrator or whole blood	

Performance Specifications

	Linear range	Precision		Carry Over
WBC	0.0 – 300 x $10^3/\mu L$	4.0 – 15.0 x $10^3/\mu L$	cv ≤ 2.0%	≤ 0.5%
RBC	0.00 – 8.50 x $10^6/\mu L$	3.50 – 6.00 x $10^6/\mu L$	cv ≤ 1.5%	≤ 0.5%
HGB	0 – 25.0 g/dL	10.0 – 18.0 g/dL	cv ≤ 1.5%	≤ 0.5%
PLT	0 – 3.000 x $10^3/\mu L$	150 – 500 x $10^3/\mu L$	cv ≤ 4.0%	≤ 1.0%
HCT	0 – 67%	35 – 50 %	cv ≤ 2.0%	≤ 0.5%
MCV		70 – 120 fL	cv ≤ 1.0%	

Sampling System

Sampler:	60 samples (6 racks 10 positions each) continuous loading
Manual sample entry:	Dedicated port for manual entry of STAT samples (open tube)
Pre-dilute mode	
Sample volume:	20 µL
Sample throughput:	Up to 80 samples / h

User Interface and Data Management

PC specifications:	RAM ≥ 2 GB, CPU ≥ 1.4 GHz, HDD ≥ 20 GB
Monitor:	mind. 1280 x 768, graphic card min. Open GL 2
Operation elements:	Keyboard, mouse, analyzer start button
Print-out:	Reports customizeable
Interfaces:	LAN interface required
Memory:	100.000 sample results incl. histograms, scattergrams and patient demographics

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