

ABX Micros 60

Technical specifications



HORIBA
Medical



PHYSICAL SPECIFICATION

- Dimensions & Weight:

Height	Width	Length	Weight
Analyzer	42 cm	36 cm	32cm
	16.5 in	14.2 in	12.6 in
			14 Kg
			30.9 lb
- Printer: Laser
- Throughput:
 - Up to 60 samples/hour in Open Tube
 - Up to 55 samples/hour in Close Tube
- Sound Pressure Level: <60 dBa
- Operating Temperature & Humidity:
 - 16 - 34°C (61 - 93°F) room temperature
 - Maximum relative humidity 80% for temperature up to 31°C (88°F) decreasing linearity humidity at 40°C (104°F)
- Specimen Volume: CBC Mode - 10 µl / CBC 3 part DIFF - 10µl
- Power Requirements:
 - Power supply from 90 Vac to 240 Vac
 - 50 Hz to 60 Hz
 - Power consumption Maximum 230 VA

METHODS & TECHNOLOGIES

- RBC/PLT detection principles

Method	Impedance	0.5 -
Ruby diameter	50 µm	0.2 -
Depression of count	200 mb	2.0 -
Duration of count	2 (or 3) x 6 seconds	1.8 -
Dilution ratio	1/15 000	10 -
		25 -
- HGB measurement
 - Method Photometry
 - Wavelength 555 nm
 - Dilution ratio 1/250
- HCT measurement
 - Method Numeric integration
- WBC measurement
 - Method Impedance
 - Ruby diameter 80 µm
 - Depression of count 200 mb
 - Duration of count 2 (or 3) x 6 seconds
 - Dilution ratio 1/250
- 3 part Differentiation
 - Method Impedance + specific lyse action
- MCV, MCH, MCHC, RDW Calculation

NORMES

- CE UL CSA
- NF EN 60601-1. UL 3101-1 C22.2 n°1010-1
- NF EN 61326, B
- NF EN 61000-3-2
- NF EN 61000-3-3

SOFTWARE SPECIFICATIONS

- Data Processing :
 - LCD screen with 2 lines of 40 alphanumeric characters
 - Capacity: Last result + graphics or 78 results with optional memory smart card
 - Mother board: 68HC11 microprocessor
 - Transmit results & QC to LIS
 - Unidirectional connection RS 232
- Quality control management :
 - Optional Lite DM data management software
 - Smart card based QC - standalone (31 controls x 3 levels)

PARAMETERS & PERFORMANCE DATA

- 16 Parameters

WBC	RBC	PLT
LYM# & LYM%	HGB	MPV
MON# & MON%	HCT	
GRA # & GRA%	MCV	
	MCH	
	MCHC	
	RDW	
- Linearity:

Parameter	Linearity Limit	Visible Range
WBC	0.5 - 100 x10 ³ /mm ³	100 - 150 x10 ³ /mm ³
RBC	0.2 - 8 x10 ⁶ /mm ³	8 - 18 x10 ⁶ /mm ³
HGB	2.0 - 26 g/dl	26 - 30 g/dL
HCT	1.8 - 80%	80 - 90%
PLT (Whole blood)	10 - 2200 x10 ³ /mm ³	2200 - 6000 x10 ³ /mm ³
PLT (PLT concentrate)	25 - 4000 x10 ³ /mm ³	4000 - 6000 x10 ³ /mm ³
- Precision:

Parameter	%CV	at
WBC	≤2.5	10 x10 ³ /mm ³
RBC	≤2	5 x10 ⁶ /mm ³
HGB	≤1.6	15 g/dl
HCT	≤2.0	45%
PLT	≤5.0	300 x10 ³ /mm ³
LYM%	≤5.0	40%
MON%	≤10	10%
GRA%	≤3	50%
- Carry-over:

WBC	<0.5%
RBC	<0.5%
HGB	<0.5%
HCT	<0.5%
PLT	<2%

ABX Micros 60

Process efficiency in Hematology



AD-041113-1 Rev.1



LAB Market

LAB MARKET

مستلزمات معملية
كيمياء
أجهزة
صيانة

01210312346
01016163354

بنها - عمارة ٢ غرب الاستاد - بجوار كنتاكي - خلف نقابة الاطباء ومطعم الرشيدى



ABX Micros 60

Complete hematology profile
16 parameters



- 60 samples per hour
- Open or Closed tube
- Compact and lightweight
- Micro-sampling:
10µl of whole blood per cycle

Solutions adapted to your needs

> Concept and Technology

- **CBC**
Impedance, selective lysing (LMG)
- **Liquid valves**
Precise volumes and reliability
- **No compressor**
Stepper motor and low noise

> Automatic Maintenance

Automatic cleaning of the sampling probe

> 16 parameters

RBC, WBC, HGB, HCT, MCV, MCH, MCHC, PLT, MPV, RDW, LYM (% and #), MON (% and #), GRAN (% and #), WBC, RBC and PLT histograms

> Flexible with a list of options

- **Lite DM software**
comprehensive QC management
customizable test panels
cumulative reporting
EMR / LIS connectivity
- **Quality control management**
Smart card based QC-standalone
(31 controls x 3 levels)
- **Sampling mode**
Open tube, or
Closed Tube (4 position tube holder)
- **Identification mode**
Alphanumerical (with internal keyboard)
Barcode reader (for patient's ID number)
- **Integrated Reagents**
Bottles
- **Memory**
Last result, or
Smart card reader - standalone
(storage of 78 results with graphics on rewritable memory smart card)

● Simple and easy menu

● Fully-automatic analysis cycle

● Only 3 reagents (diluent, lyse, cleaner)



Patient Data Management



Sampling
on Open tube



Sampling
on Closed tube



Barcode reader



Keyboard



ABX Micros 60
Open Tube