

ELite 580

Advanced
Hematology Analyzer



ELITE58020180901EN

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Specifications are subject to change without prior notice.
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ELite 580

Features

- Compact, powerful and affordable
- 29 parameters, 5-part differentiation
- Up to 80 samples per hour
- 20 µl sampling volume
- Whole blood, capillary blood and prediluted
- Rack closed tubes / manual opened tubes
- Reagent inventory management thru RFID
- Large LCD display ~ 15"
- Connectable to LIS

Parameters

- WBC, LYM, LYM%, MON, MON%, NEU, NEU%, EOS, EOS%, BAS, BAS%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, PDW, MPV, PCT, P-LCR, P-LCC;
- 4 research parameters: ALY, ALY%, LIC, LIC%
- 1x 3D scattergram, 3x 2D scattergram and 3 histograms

Methods of measurement

- Impedance method for WBC, RBC, PLT counting; independent Basophil channel
- Semiconductor-laser-based flow cytometry for white blood cells differential
- Colorimetric method for Hemoglobin using cyanide-free reagent

Calibration and control

- 3 modes of calibration: manual, automatic using calibrator, automatic using fresh blood samples
- 3 levels of control blood (low, normal, high) for daily quality control measurement with Levey-Jennings charts
- User definable QC range

Performance

	Carryover	Repeatability	Linearity
WBC	≤ 0.5%	≤ 2.0% (4.0 – 15.0 x10 ⁹ /L)	0.00 – 300 x10 ⁹ /L
RBC	≤ 0.5%	≤ 1.5% (3.50 – 6.00 x10 ¹² /L)	0.00 – 8.50 x10 ¹² /L
HGB	≤ 0.5%	≤ 1.5% (110 – 180 g/L)	0 – 250 g/L
PLT	≤ 1.0%	≤ 4.0% (150 – 500 x10 ⁹ /L)	0 – 3000 x10 ⁹ /L

Technical specification

Parameters

29 parameters, 5 part diff system
1x 3D scattergram
3x 2D scattergram
3 histograms

Throughput

Up to 80 samples per hour

Sample Volume

20 µl of whole/prediluted blood

Sampling Mode

Autosampler: closed tubes
Manual sampling: opened tubes

Test Mode

CBC
CBC+DIFF

Data Storage Capacity

Up to 100 000 results
(including numeric and graphical informations)

Communication

LAN port supports HL7 protocol

Power Requirement

A.C. 100-240 V, ≤300 VA, 50/60 Hz

Operating Environment

Temperature: 15-30°C
Humidity: 30-85%
Air pressure: 70-106 kPa

Dimension

650 x 550 x 610 mm

Weight

59 kg

