



Counting on Reliability

cellagon3

**3-PART DIFFERENTIAL AUTOMATED
HEMATOLOGY ANALYZER**

KEY FEATURES AND BENEFITS

- Up to 60 tests / hour
- 21 parameters/3 histograms
- Dual Channel electric impedance method for cell counting
- Colorimetric method for HGB determination
- Cyanide free lyse solution
- Low sample volume, low reagent consumption
- Venous whole blood/capillary blood 9,8ul/test
- Pre-diluted mode 20ul/test
- Large color 10,1" touch screen
- Smart and user-friendly software
- Complete system from Diagon (instrument, reagents, controls, calibrators)
- European brand Made-in-Hungary
- Built in thermal printer

ECONOMIC AND RELIABLE

accurate, stable and reliable results

- Dual channel impedance counting method
- External power supply for noise-free anti-interference operation
- Optional external grounding
- LED colorimetric HGB determination technology
- Up to 200.000 patient result storage capacity



IMPROVED TIME SAVING

convenient for maintenance, safe and reliable

- Easy access modular design for easy maintenance
- Complete self-test function
- Pre-defined cleaning methods
- Automatic cleaning during start-up and shut-down to ensure good status of the instrument
- Backflush/zapping feature at every measurement cycle
- Auto-clean feature at every 30-150 tests



OPTIMAL CONVENIENCE

complete system: instrument, reagent, calibrator and QC system

- RFID protected ready-to-use reagent pack
- L-J and X-B QC graphs
- Customized QC graphics
- Bi-directional LIS for fast and reliable data transfer
- Manual/automatic calibration
- Venous blood/capillary blood/prediluted modes
- 24/7 support from Diagon



TECHNICAL SPECIFICATIONS

Sample type	Venous blood $\leq 9.8\mu\text{l}$, capillary blood $\leq 9.8\mu\text{l}$, prediluted whole blood $\leq 20\mu\text{l}$		
Sampling method	Open tube system		
Throughput	60 samples / hour		
No. of parameters / histograms	21 parameters / 3 histograms		
Parameters	WBC, LYM#, LYM% MID#, MID%, GRA#, GRA%, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PDW, PCT, P-LCC, P-LCR		
Measurement principles	Electric impedance method for cell counting, colorimetric method for HGB determination		
Carryover	WBC, RBC, HGB	$\leq 0,5\%$	
	PLT	$\leq 1\%$	
Linearity	WBC	$0.50 \times 10^9/\text{L} \sim 10.00 \times 10^9/\text{L}$	$\leq \pm 0.50 \times 10^9/\text{L}$
		$10.10 \times 10^9/\text{L} \sim 99.90 \times 10^9/\text{L}$	$\leq \pm 5\%$
	WBC	$0.05 \times 10^{12}/\text{L} \sim 1.00 \times 10^{12}/\text{L}$	$\leq \pm 0.05 \times 10^{12}/\text{L}$
		$1.01 \times 10^{12}/\text{L} \sim 9.99 \times 10^{12}/\text{L}$	$\leq \pm 5\%$
	HGB	$2\text{g}/\text{L} \sim 70\text{g}/\text{L}$	$\leq \pm 2\text{ g}/\text{L}$
		$71\text{g}/\text{L} \sim 300\text{g}/\text{L}$	$\leq \pm 2\%$
Precision CV	PLT	$10 \times 10^9/\text{L} \sim 100 \times 10^9/\text{L}$	$\leq \pm 10 \times 10^9/\text{L}$
		$101 \times 10^9/\text{L} \sim 999 \times 10^9/\text{L}$	$\leq \pm 8\%$
	HCT	$0\% \sim 67\%$	$\leq \pm 2\%$
Data Storage	WBC	$\leq 2\%$	
	RBC	$\leq 1,5\%$	
	HGB	$\leq 1,5\%$	
	MCV	$\leq 1\%$	
	PLT	$\leq 4\%$	
Display	Up to 200.000 patient results		
Optional peripherals	Built in 10,1" high definition touch screen		
Interfaces	Keyboard, mouse, Barcode reader, external printer, external screen		
Dimensions/Weight	4 USB ports, RJ45 Connector(LAN), RS232 connector(LIS), VGA connector		
Operational environment	425(H) x 294(W) x 465(D) mm / 18,5 kg		
Power Requirement	Temperature: 15-35°C Humidity: 30% - 85%		
Dedicated Reagents, Controls and Calibrators"	code	name	unit
	g-Cell3	Cellagon 3 hematology instrument	1pcs
	h73101	Cellaton D	20L
	h73102	Cellalyse	0,5L
	h73136	Cellaclean	0,05L
	DDC18T2,5L	D-Check D 2,5ml low	2,5ml
	DDC18T2,5N	D-Check D 2,5ml normal	2,5ml
	DDC18T2,5H	D-Check D 2,5ml high	2,5ml
	D-CAL D calibrator	D-Cal D calibrator	3ml