



Medonic M51 5-part hematology system

Explore your possibilities

FOR TODAY'S HEMATOLOGY LABS

- Reliable
- User-friendly
- Cost-effective

Providing you access to a reliable and user-friendly, yet cost-effective 5-part hematology system

Medonic M51 is an entry-level 5-part hematology analyzer intended for the cost-minded clinical laboratory. The user-friendly design simplifies system management, and the robust software and quality hardware components ensure reliable operations. With its small footprint, Medonic M51 is well suited for the typical physician office laboratory.

Intelligent instrument design

Medonic M51 is designed to simplify work processes and give users better control of sample results and patient records. The intuitive user interface promotes smooth operation, with simple-to-understand and easy-to-navigate menus. Instrument features such as the open probe design and the selected leaning angle of the screen contribute to a comfortable working environment.



Easy-to-use display simplifies system handling.

Reliable system performance

Medonic M51 provides accurate test results from small sample volumes. Reliable instrument performance is accomplished by stringent material selection and intelligent design of system components. A variety of connection options facilitate communication and exchange of data between laboratories.

Cost-efficient operations

Its space-saving compact design makes Medonic M51 well-suited for the smaller clinical laboratory. Together with a maximized uptime enabled by the robust system performance, the need of only three reagents ensures cost-efficient operations.

Medonic M51 provides you the possibility to leverage high-quality diagnostics, while keeping costs to a minimum.



A compact design makes the system suitable for confined spaces.

Medonic M51 hematology system



Large high-resolution touch screen for operator convenience.

Ergonomic design simplifies system handling.

Photometric determination of hemoglobin.

Electrical impedance method ensures accurate identification of RBC and platelets.

Support of USB, LAN, and bidirectional LIS for flexible connection options.

Laser-based flow cytometry for WCB differential, with separate channel for basophils for a more precise count.

Technical specification

Principles

Tri-angle laser scatter Flow Cytometry (FCM) method for WBC 5-part differential analysis and WBC counting

Impedance method for RBC and PLT counting

Colorimetric method with Cyanide free reagent for Hemoglobin measurement.

Parameters

29 parameters:

- RBC, MCV, HCT, RDW-SD*, RDW-CV, HGB, MCH, MCHC
- PLT, MPV, PCT*, PDW*, P-LCC*, P-LCR*
- WBC, LYM#, LYM%, MON#, MON%, NEU#, NEU%, EOS#, EOS%, BAS#, BAS% AL#*, AL%*, IG#*, IG%*

*Parameter for research use only

Sample analysis

Samples:

Venous blood, capillary blood, and pre-diluted

Sampling system:

Open tube aspiration

Aspiration volume:

- CBC: 20 μ L
- CBC + DIFF: 25 μ L

Throughput

Up to 60 samples/h in CBC mode

Up to 45 samples/h CBC + 5-part WBC differential

Reagents

3 RFID locked reagents and one cleaner used for analysis:

Medonic M51-D Diluent

Medonic M51-L1 Lyse

Medonic M51-L2 Lyse

Boule Easy Cleaner

Precision

CV WBC: $\leq 2.0\%$

CV RBC: $\leq 1.5\%$

CV MCV: $\leq 1.0\%$

CV HGB: $\leq 1.5\%$

CV PLT: $\leq 6.0\%$

Display

10.4 inch TFT touch screen

Data storage capacity

50000 samples

Interface ports

4 USB ports, 1 LAN port that supports bidirectional HL7 protocol

Printout

External laser printer or inkjet printer, various printout formats and user-defined formats

Linearity and Carryover

Parameter	Linearity Range	Carryover
WBC	0-300 x 10 ⁹ /L	$\leq 0.5\%$
RBC	0-8.5 x 10 ¹² /L	$\leq 0.5\%$
HGB	0-25.0 g/dL	$\leq 0.5\%$
PLT	0-3000 x 10 ⁹ /L	$\leq 1.0\%$

Dimension

364 mm (L) x 431 mm (W) x 498 mm (H)

Weight

26.5 kg

Boule Diagnostics AB is a diagnostics company that develops and manufactures systems and consumables for hematology diagnostics for public healthcare providers worldwide. The company is primarily focused on small and medium-sized hospitals, clinics, and laboratories in outpatient care as well as other diagnostics companies in both human and veterinary hematology. The group comprises operating subsidiaries in Sweden, the US and China. Since 2011, Boule Diagnostics shares are traded on NASDAQ OMX Nordic.

Hematology systems beyond compromise.

For more information about Medonic M51, please visit medonicM51.boule.com



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