

HEMATOLOGY ANALYZERS

MTDH51VET



SMALL DIMENSIONS FOR A GREAT PERFORMANCE



Reticulocyte test: RETIC_ABS, RETIC%, IRF | 34 parameters, 2 histograms, 2 scatter grams and two 3D stereograms | Hourly throughput up to 60 samples | Minimized design of 5-part | The combination of WIC and WOC for WBC counting | Impedance method for RBC and PLT counting | Cyanide free reagent for hemoglobin counting | On board storage capacity of 200,000 samples with all grams | Support variety of external color printers | LIS and HIS available with HL7 protocol

MTD DIAGNOSTICS s.r.l.

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LASER SCATTER

- Multi angle scatter separation (MASS)
- Original cell morphology signal
- Stable and long-lasting



SHEATH FLOW REGULATION

- Chemical dye free technology
- Only sheath reagent for WBC 5-Diff



DILUTING UNIT

- Separation system for moters and syringes
- Ceramic syringes
- High precision moters



ELECTRONIC AND MECHANICAL COMPONENTS

- Individual quality control management
- Military level
- 20 years filed-proven



2D+3D GRAMS

- Two 2D histograms: RBC and PLT
- Two 2D scattergrams: 5-part differential, Eosinophil and Neutrophil
- Two 3D multi angle vision grams



DATA MANAGEMENT

- On board storage capacity of 200,000 samples with all grams
- Professional data statistics query system



OPERATION INTERFACE

- Simple touch operate with user friendly illustrated icons
- Handy tool tips
- Unique MTD operation interface like all MTD hematology series



QUALITY CONTROL SOLUTION

- MTD original QC reagent with multi method as L-J, X, X-R, X-B, etc.
- Third party QC solution available

Certified Company
  **ISO13485 certified**

SPECIFICATIONS

Parameters

WBC, LYM%, MON%, NEU%, EOS%, BASO%, LYM#, MON#, NEU#, EOS#, BAS#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW_CV, RDW_SD PLT, MPV, PDW, PCT, P_LCR, P_LCC, RETIC%, RETIC_ABS, IRF

6 research parameters: ALY#, ALY%, LIC#, LIC%, NRBC#, NRBC%

2 Histograms for RBC and PLT.

2 Scattergrams: 5-part differential scattergram, Eosinophils and Neutrophils scattergram

Two 3-D stereograms

Principles of operation

WBC/DIFF: Flow Cytometry, Semiconductor laser light multi-dimensional cell classification

WBC Analysis: Optical and impedance measurements

RBC/PLT Analysis: Impedance method

HGB test: Cyanide-free reagent colorimetry

Diluent, Detergent Lyse, Sheath, RETIC staining solution

Whole blood: 20 µL, Pre-diluent: 20 µL

Reagent Animal Types

Sampling Mode & Aspiration Volume

Aperture Diameter

Throughput

Data storage

Alarms

Display

Size

Power

Weight

Animal Types

WBC 100 µm, RBC/PLT 68 µm

Whole blood; up to 60 samples/h, pre-diluent: up to 60 samples per hour

Up to 200,000 sample results with grams

Error messages & pathological flags

10.4-inch colour touchscreen

580 mm (L) x 750 mm (W) x 550 mm (H)

AC 100 – 240 V, 56/60 Hz, 250 V A

About 35 Kg

Dog, Cat, Horse, Pig, Cow, Buffalo, Rabbit, Monkeys, Rats, Mice, Sheep, Goat, Camel

