



Drew Scientific Group

EXCELL 18

3 Part Differential Automated Hematology System



Operation :

Scientific Principle :

4 x dimensions optical scattering for WBC differential

Electrical resistance for counting (WBC, RBC, Plt) and sizing (Plt,RBC)

Optical absorbance of cyanmethemoglobin for hemoglobin

Sample Volumes :

Direct mode

Sample saver mode

Automatic sampler 180 μ L whole blood

80 μ L whole blood

180 μ L whole blood

Dilution system :

High precision ceramic shear valve and computer controlled diluent dispenser.

Automatic rinse inside and outside of the sample probe prevents carryover and reduces risk of transmission of blood borne pathogen to operators.

Sensors :

Flow cytometer with solid state sensors or photomultiplier for WBC differential.

WBC aperture 100 μ m dia x 75 μ m length

RBC/Plt aperture 78 μ m dia x 55 μ m length

The Plt/RBC channel features the patented "von Behrens" silencer that eliminates RBC recirculation which interferes with low Plt counts in conventional aperture designs.

Throughput :

Results in 45 seconds in direct mode





Features :

16 or 18 parameters

60 samples per hour

Sample size flexibility satisfies a wide range of end user requirements

Large LCD with histograms on screen

User friendly operator interface

Data management stores up to 200 sample records and QC statistics

User interface with multilanguage capability

Parameters :

WBC, Lymp, Gran, Midst

Lymp%, Gran%, Mids%

RBC, Hgb, Hct, MCV, MCH, MCHC, RDW, Plt, MPV, Pct, PDW

The system also displays :

WBC histogram

Plt histogram

RBC histogram

The instrument has a throughput of a minimum 60 samples per hour in direct sampling mode.

Software :

Patient identification : PID 12 digits, name, first name, sex, DoB, comments

Patient data storage : 100,000 results with scattergrams & histograms

User selectable report format

ASTM or HL7 report format

Automatic or manual calibration

Selectable units : MKS, SI, SI modified

Patient normal range : 8 sets, user modified

Patient action limits : user defined

Multi-language capability

QC assay files : 12 lots, 3 levels each.

Assays are loaded via keyboard, modem or disk

Printed log of QC data with automatic calculation of mean, SD, CV

Monthly Levey-Jennings plot of QC data, X-B, Bull's moving average, Westgard rules

QC results transfer for peer to peer analysis via modem or disk

Diagnostic alerts to assist operator

Maintenance log

Errors log

Contact Us

Drew Scientific manufactures and sells Hemoglobin analyzers, Blood Cell Counters, Reagents and Controls Sales Enquiries

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