

TEK8520 Automatic Hematology Analyzer

Features

Technical Specifications

Optical solid state LASER scattering Wide angle light scatter Eligh efficient light collector(patented)
Electrical Impedance Double hydrodynamic focusing

Parameters

LYM#,Mon#,Neu#,Bas#,Eos#,LYM%,Mon%,Neu%,Bas%,Eos%,Lx,Ly,Nx,Ny,WBC,RBC,
Hb,HCT,MCV, MCH,MCHC,RDW-CV,RDW-SD*,PIt,Pct,MPV,PDW
1 Scattergrams:WBC Interpreted Scattergram
4 Histograms:RBC PLT WBC cyto

Throughput

Lip to 90 samples per hour(Auto sample mode/open sample 90samples per hour)

Display

12.1 Inch Touch Screen

Sample types

Whole blood PLT only HB only Capillary predilution Diluent Control Calibrator

Performance

Parameter	Linearity range	Precision (CV%)
WBC	0.1-100	2.0(4.0-10.0)
RBC	0-9.99	1.5(3.5-5.5)
HGB	0-300	1.0 (110.0-160.0)
PLT	0-1000	4.0(100-300)
MCV	45-135	0.5(80.0-100.0)

Sample volume

Prediluted: 20 L Whole blood: 10 L

Carryover

WBC<0.5%,RBC<0.5%,HGB<0.5%,PLT<0.8%

Mult-language

Chinese English for optional
others can be customized

Data storage capacity

Up to 100,000 results including numeric and graphical information

Printout

External Laser printer/Inkjet printer, various printout formats and user-defined formats

Operating Environment

Temperature:10-35
Humidity:30%~85%

Power Requirement

AC 100-240V 50/60HZ



Dimension

Instrument:532mmx400mmx520mm
Package:696mmx576mmx696mm

Weight

Net:28KG Gross:32KG



12.1 inch touch screen
High resolution
User-friendly software

Communication
4 USB, COM, LIS

Net Weight
Only 28kg

Laser Light scatter and Cell
Histochemistry method Semiconductor laser which has long service life and laser signal more stable. Through laser light scatter and cell histochemistry technology, provide size of cell, cell nucleus and cell particle. Make classification and counting more accurate.

Accurate blood dispense system
TEK8520 utilizes advance ceramic sample rotatorvalve platform to accurately segments blood with high precision.

Prediluted:
Select Prediluted mode, automatic injection prediluted reagent Easy operation and avoid manual errors

Original Reagent
Only 3 types:
Sheath Hematon Enzyme Detergent and Complex Cell Flemalyse High quality original reagent ensure high accuracy

Unique high efficiency laser energy focusing technology

Patented high efficiency laser energy focusing, combining Fresnel lens focusing laser signal Effectively avoid the interference of other light signals, and get stronger and more stable signal More accurate classification

Unique double sheath flow focusing fluid technology Inner

Sheath flow closely packed cell, so that the cell are arranged in sheath flow axis, make sure flow through the testing center one by one under the action of flow power. Outer sheath flow device, ensure cell were taken away quickly after flowing through aperture, avoid eddy current, in order to get more stable signal.

Exceptional cellular alarm function

Fragment, plasmodium, cell tolerance, PLT aggregation, Low HGB in RBC, abnormal scatter diagram custom parameters alarm recheck. Provide multinomial research parameters: specific lymphocyte, immature cell, unrecognized cell etc.

Floating classification technology

Automatically adapt to the change of scatter gram, effectively identify the boundaries of various cells, to obtain more accurate WBC classification results.

