

BC-5390CRP

Automated Hematology Analyzer

Technical Specifications

Principal technologies
Impedance method for RBC and PLT counting
Cyanide free reagent for hemoglobin test
Flow Cytometry (FCM) + Laser scatter + Chemical dye method for WBC differential
Latex Immunoturbidimetric Method for CRP test

Parameters
26 reportable parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCC, P-LCR, FR-CRP
6 research parameters: ALY#, ALY%, LIC#, LIC%, NRBC%, NRBC#
3 histograms for WBC, RBC and PLT
1 scattergram: Differential scattergram

Sample mode
Venous whole blood mode
Capillary whole blood mode
Prediluted mode

Sample Volume
CBC mode 20 µL
CBC + DIFF mode 20 µL
CBC + DIFF + CRP mode 35 µL
CRP mode 20 µL
Prediluted mode 20 µL

Performance			
	Carryover	Precision	Linearity
WBC	≤0.5%	≤2.0% (4-15×10 ⁹ /L)	0.00-400.00×10 ⁹ /L
RBC	≤0.5%	≤1.5% (3.5-6.0×10 ¹² /L)	0.00-8.00×10 ¹² /L
HGB	≤0.6%	≤1.5% (110-180g/L)	0-250g/L
PLT	≤1.0%	≤4.0% (150-500×10 ⁹ /L)	0-5000×10 ⁹ /L
FR-CRP	≤1.0%	SD≤0.50mg/L(≤10mg/L) CV≤4%(>10mg/L)	0.2-320mg/L

Throughput
CBC+DIFF: up to 60 samples per hour
CBC+DIFF + CRP: up to 60 samples per hour
CRP: up to 60 samples per hour

Data Storage Capacity
Up to 40,000 results with numeric and graphical information

Communication
LAN Port supports HL7 protocol
Support bi-directional LIS

Operating Environment
Ambient temperature: 15°C - 30°C
Relative humidity: 30% - 85%
Atmospheric pressure: 70kPa - 106kPa

Power requirement
Voltage: 100V-240V
Frequency: 50Hz/60Hz

Dimension and Weight
Width×Height×Depth: 570mm×560mm×700mm
Weight: 65kg

Reagents
M-53D Diluent
M-5 LEO (I) Lyse
M-5 LEO (II) Lyse
M-53LH Lyse
LC Lyse
C-reactive Protein(CRP) Kit(Latex Immunoturbidimetric Method)
Probe Cleanser



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1 tube solution for CBC+DIFF and CRP

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