



BIOELAB EC-51



# EC-51

5 Part Automated Hematology Analyzer

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### Technical Specifications

#### Principles

Sheath flow cytometry (FCM) + tri-angle laser scatter method for WBC  
5-part differential analysis and WBC counting  
Impedance method for RBC and PLT counting  
Cyanide free reagent for hemoglobin measurement

#### Parameters

25 report parameters: WBC, Lym%, Mon%, Neu%, Bas%, Eos%, Lym#, Mon#, Neu#, Eos#, Bas#, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PDW, PCT, P-LCR, P-LCC  
10 research parameters: LIC%, LIC#, ALY%, ALY#, PLT Clumps#, PLT Clumps%, Lip#, Lip%, NRBC#, NRBC%  
3 histograms for WBC, RBC and PLT  
3 diff scattergrams and 1 BASO scattergram

#### Reagent

Dil-5 Diluent, E5-diff Lyse, E5-lh Lyse, Probe Cleaner

#### Performance

Parameter	Linearity Range	Carryover
WBC	0-500*10 <sup>9</sup> /L	0.5%
RBC	0-8*10 <sup>12</sup> /L	0.5%
PLT	0-5000*10 <sup>9</sup> /L	1%
HGB	0-250g/L	0.5%

#### Sample Volume

Prediluted blood 20μl, whole blood 15μl

#### Throughput

60 samples per hour

#### Display

10.4 inch TFT touch screen

#### Multi-language

English, Chinese, Portuguese, Spanish, Russian, French

#### Data Storage Capacity

Up to 100,000 results including numeric and graphic

#### Communication

Lan port supports HL7 protocol

#### Interface

4 USB ports, 1 lan part

#### Printout

External laser printer/Inkjet printer, various printout formats

#### Operating Environment

Temperature: 10°C-30  
Humidity: 20%-85%

#### Air Pressure

70 kPa-106 kPa

#### Power Requirement

100-240VAC, 50/60Hz

#### Dimension

420mm(L)\*300mm(W)\*430mm(H)

#### Weight

≤25kg

### E-LAB BIOLOGICAL SCIENCE & TECHNOLOGY CO., LTD.

Address: No. 1, Kechuang, Yaohua Street, Qixia District, Nanjing city,  
Jiangsu Province, China  
Tel: 086-025-83269256  
Fax: 086-025-83269255  
Web: www.bioelab.net  
E-mail: Jason.lu@bioelab.net  
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EAB-YW-EC51-2024V1.0



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