ES-HEM5500
5 Part Auto Hematology Analyzers
ES-HEM5500

5 Part Auto Hematology Analyzer

Performance

High Stability & Accuracy
- Advanced Sweep-Flow technology guarantees low PLT samples counted precisely.
- Combined with optical and impedance method to make the BASO measurement more reliable and stable.
- Creative SMART-FLOW fluidic technology to make ES-HEM5500 with good reliability and free of maintenance.

User-friendly System
- 14 inch touch screen with high resolution and sensitivity, can be operated by wearing gloves.
- ONE touch to start the test.
- ONE click to remove error.
- ONE screen for most of the daily operation.
- Intelligent turn off power switch.
- Low running cost, only three reagents needed for the test.
- Low reagent consumption for single test.
- Low volume sample consumption.
- CBC+DIFF mode: ≤ 20ul, CBC mode: ≤ 10ul, ideal choice for pediatrics and geriatrics.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Linearity Range</th>
<th>Carry Over</th>
<th>CV</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBC</td>
<td>0-300 x 109/L</td>
<td>≤ 0.5%</td>
<td>≤ 2.0%</td>
</tr>
<tr>
<td>RBC</td>
<td>0-8 x 1012/L</td>
<td>≤ 0.5%</td>
<td>≤ 1.5%</td>
</tr>
<tr>
<td>HGB</td>
<td>0-250g/L</td>
<td>≤ 0.5%</td>
<td>≤ 1.5%</td>
</tr>
<tr>
<td>PLT</td>
<td>0-3000 x 109/L</td>
<td>≤ 1.0%</td>
<td>≤ 4.5%</td>
</tr>
</tbody>
</table>

Specification

Principle: Tri-angle Laser scatter
3D Scattergram analysis
Flow Cytometry method
Cyanide free reagent for HGB test
Impedance method for RBC and PLT counting

Parameters: 25 Reportable parameters
WBC, RBC, HGB, HCT, MCV, MCH, MCHC, RDW-SD, RDW-CV, PLT, MPV, PCT, DW,
P-LCR, P-LCC, NEU%, LYM%, MON%, EOS%, BAS%, NEU#, LYM#, MON#, EOS#, BAS#
n.1 3D Scattergram
n.3 Histograms (WBC/BASO, RBC, PLT)
n.4 Research parameter: ALY%, ALY#, IG%, IG#

Throughput: 60 samples per hour

Test Mode: CBC mode, CBC+DIFF mode, Venous whole blood, Capillary whole blood and Prediluted

Sample Volume: CBC+DIFF mode: ≤ 20ul; CBC mode: ≤ 10ul
**ES-HEM5500**

5 Part Auto Hematology Analyzer

### Specification

- **Display**: 14 inch touch screen, resolution 1366 x 76
- **Storage**: Up to 100,000 results (including histogram, scattergram, patient information)
- **Printout**: Support various external USB printers, printout formats user definable
- **Communication**: Bi-direction LIS, support HL7 protocol Internal RFID reader
- **Interface**: 1 LAN port, 4 USB ports
- **External printer**: Available on request
- **Working Conditions**: Temperature: 10-30°C  
  Humidity: 20% - 85%  
  Air pressure: 70~106kPa  
  Working latitude: ≤ 3500m  
  Power supply: AC100-240v, 50/60HZ
- **Dimension**: 480 x 375 x 517mm (L x W x H)
- **Weight**: 36Kg (net)

### Tri-angle laser scatter + flow Cytometry + impedance method for WBC

The 5 part differentiation of the white blood cell can be precisely done by collecting the optical signal when WBC pass through the beam.

- The front small-angle optical signal can reflect the information of the cell size.
- The front large-angle optical signal can reflect the information of nucleus structure and complexity.
- The side angle optical signal can reflect the information of granularity complexity.
ES-HEM5500
5 Part Auto Hematology Analyzer

Tri-angle laser scatter + flow Cytometry + impedance method for WBC

3D Scattergram

Dual methods for BASO measurement

3D holographic scattergram displays the accurate 5 part differentiation of EBC.

The first innovative analyzer combined the optical method of BASO (BASO-O) and impedance method of BASO (BASO-I) together, it brings more reliable and stable measurement of BASO pathologic samples and minimized the analysis failure.

Reagents

Start-up kits
Diluent 20L
Lyse-1 250ml
Lyse-2 250ml
Probe cleanser 100ml