Samsung LABGEO HC10

Inspiring Confidence with Fast & Accurate Diagnosis
**FAST**

- **Rapid Performance and High Throughput**
  - Test to results within 45 seconds (80 tests/hour)
  - Automatic dual detection chamber

**EASY**

- **Simple 3 Step Test**
  - Prepare sample (EDTA tube)
  - Load sample & Press start
  - Check results within 45 seconds

- **Auto Sample Loader**
  - Enhances workflow
  - Reduces risk of infection

- **Optional External Devices**
  - Barcode reader
  - Keyboard
  - Printer (PCL3, PS)

---

**KEY FEATURE**

- **Size & Weight**
  - 344 x 293 x 390mm, 12.8kg

- **Parameters**
  - WBC, LYM, MON, GRA, LYM%, MON%, GR%, Hb, HCT, RBC, MCV, MCH, RDW, MCHC, PLT, PCT, MPV, PDW

- **Sampling Volume**
  - 25 μl of whole blood (10 μl of whole blood in pre-diluted mode)

- **Sampling Method**
  - Open tube system with automatic sample rotor

- **Tube Size**
  - 13 x 75 / 11 x 65 / 11 x 40mm, Vials OD smaller than 17mm

- **Reagent**
  - Diluent 20L, Lyse 1L, Cleaner 1L, Hypocleaner 1L

- **Data Capacity**
  - 1,000 results with RBC, PLT, and WBC 3-part histograms

- **Operating Temperature**
  - 59-86°F (15–30°C), optimal temperature at 77°F (25°C)

- **Interface**
  - 4 x USB 1.1 Port, 1 x Ethernet (10/100 Base-T)

- **Power Supply**
  - DC 12V, 5A, 60W

---

**PERFORMANCE**

**Precision**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Linearity</th>
<th>Range of Mean</th>
<th>Median CV(%)</th>
<th>Standard CV(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBC</td>
<td>10^3/μl</td>
<td>0.0 ~ 75.0</td>
<td>4.3 ~ 8.4</td>
<td>1.58</td>
<td>3</td>
</tr>
<tr>
<td>Hgb</td>
<td>g/dL</td>
<td>6.0 ~ 25.0</td>
<td>10.7 ~ 15.1</td>
<td>0.84</td>
<td>2</td>
</tr>
<tr>
<td>RBC</td>
<td>10^7/μl</td>
<td>0.0 ~ 8.0</td>
<td>4.24 ~ 5.06</td>
<td>1.28</td>
<td>2</td>
</tr>
<tr>
<td>PLT</td>
<td>10^3/μl</td>
<td>9 ~ 1,000</td>
<td>192 ~ 380</td>
<td>3.33</td>
<td>6</td>
</tr>
</tbody>
</table>

---

**Accuracy**

*Correlation with central laboratory hematology analyzer, Samsung Coulter LH780 (Ajou University Hospital, 2011)*

---

**COMMON FEATURE**

**Proactive Customer Service**

- Real-time monitoring and error diagnosis
- Immediate response from service team

**IT Solution**

- Connect to local PC for efficient data management
- Automatic software updates

---

**SAMSUNG LABGEO HC10 Data Manager**

*Under development*