Blood/Hemo-Dialysis Solution Measuring System
Na\textsuperscript{+}, K\textsuperscript{+}, Ca\textsuperscript{++}, pH Electrolyte Analyzer

EX-Ca

Features

- Measurement Parameter: Na\textsuperscript{+}, K\textsuperscript{+}, Ca\textsuperscript{++}, pH
  Calculated Parameter: pH corrected Ca\textsuperscript{++}

- Measurement Sample:
  Hemo-Dialysis Solution A (Acid Concentrates), Solution B (Bicarbonate),
  Solution A+B Balanced
  Whole Blood, Plasma, Serum

- Measurement Speed: 60 samples/hour

- The electrode block features a temperature control function to assure very accurate pH corrected Ca\textsuperscript{++} result.

JOKOH
Only one time calibration in a day, very stable data can be obtained. It is designed for easy operation and economical performance.

**Easy operation**
Sample nozzle is long enough for syringe, sample cup, capillary and you can even test samples directly from sample tubes easily. With sample cup mode, only 2 steps is required to measure and obtain test result.

**Temperature control**
Temperature sensor monitor the outside temperature and control electrode block at 37°C all the time in order to obtain very accurate pH and pH corrected Ca**++** result.

**Aluminum reagent pack**
With aluminum reagent packs completely sealed up, reagents have almost no concentration or no dilution. Therefore, you can get data more accurate and more reliable.

**Print out**

<table>
<thead>
<tr>
<th>spec result</th>
<th>Blood</th>
</tr>
</thead>
<tbody>
<tr>
<td>unit</td>
<td>mM</td>
</tr>
<tr>
<td>Na</td>
<td>138.0</td>
</tr>
<tr>
<td>K</td>
<td>3.99</td>
</tr>
<tr>
<td>Ca</td>
<td>0.97</td>
</tr>
<tr>
<td>pH</td>
<td>7.53</td>
</tr>
<tr>
<td>cCa</td>
<td>1.01</td>
</tr>
</tbody>
</table>

**Specification of EX-Ca**

<table>
<thead>
<tr>
<th>Measurement method</th>
<th>Fully automated system with ion selective electrode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample volume</td>
<td>300µl</td>
</tr>
<tr>
<td>Measurement speed</td>
<td>60 samples/hour</td>
</tr>
<tr>
<td>Test parameters</td>
<td>Blood, Serum, Plasma</td>
</tr>
</tbody>
</table>

- Na**: 70.0-200.0 (mmol/L)
- K**: 1.00-20.00 (mmol/L)
- Ca**++**: 0.50-3.00 (mmol/L)
- pH: 7.00-8.00
- cCa**++**: 0.5-3.0 (mmol/L) (pH=7.2-7.6)

<table>
<thead>
<tr>
<th>Solution A (Acid Concentrates)</th>
<th>Solution B (Bicarbonate)</th>
<th>A+B balanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Na**: 100.0-120.0 (mmol/L)</td>
<td>20.0-40.0 (mmol/L)</td>
<td>130.0-150.0 (mmol/L)</td>
</tr>
<tr>
<td>K**: 1.00-3.00 (mmol/L)</td>
<td></td>
<td>1.00-3.00 (mmol/L)</td>
</tr>
<tr>
<td>Ca**++**: 0.50-3.00 (mmol/L)</td>
<td></td>
<td>0.50-3.00 (mmol/L)</td>
</tr>
</tbody>
</table>

- Calibration: Two-point automatic calibration (interval is adjustable)
- Test functions: Calculation of the X and C.V. %. Setting up normal range
- Data memory: 500 patient data
- On-line: RS-232C built in
- Display: LCD display with a back light (20 digits, 4 lines)
- Printer: Thermal printer
- Barcode reader: Option
- Weight: Approx. 13 kg
- Dimensions: 300 (W) x 300 (D) x 370 (H) mm
- Power: AC 110/220 V ±10%, 50/60 Hz

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