### Parameters at a Glance

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Dual Test Method Nephelometry &amp; Photometry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>7&quot; Colour TFT Display</td>
</tr>
<tr>
<td>Power Source</td>
<td>48VAC Line</td>
</tr>
<tr>
<td>Weight</td>
<td>5.5 Kg Without Battery</td>
</tr>
<tr>
<td>Laser Power</td>
<td>5 mw</td>
</tr>
<tr>
<td>Temperature Control</td>
<td>Dry Heating</td>
</tr>
<tr>
<td>Temperature</td>
<td>Controlled 35°C ± 0.2°C</td>
</tr>
<tr>
<td>Photo Detector</td>
<td>Silicon Diode</td>
</tr>
<tr>
<td>Calibration</td>
<td>Smart Card Calibration</td>
</tr>
<tr>
<td>User Interface</td>
<td>Touch Screen Display</td>
</tr>
<tr>
<td>Printer</td>
<td>Inbuilt Thermal Graphic Printer</td>
</tr>
<tr>
<td>Barcode Reader</td>
<td>Inbuilt Barcode Reader &amp; Hand Held Reader (optional)</td>
</tr>
<tr>
<td>PC Interface</td>
<td>RS 232 Port (Data Transmission, External Barcode)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>85-265 VAC 50/60Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>100 W</td>
</tr>
<tr>
<td>Result Storage</td>
<td>1000 Result</td>
</tr>
<tr>
<td>Minimum Sample Volume</td>
<td>80 µl</td>
</tr>
<tr>
<td>Reagents</td>
<td>Cartridge Based Specific Protein Analyser</td>
</tr>
<tr>
<td>Accessory</td>
<td>Mispa-i3 Instrument</td>
</tr>
<tr>
<td>Measr. Range</td>
<td>50 - 1000</td>
</tr>
<tr>
<td>Ref. Range</td>
<td>0 - 200</td>
</tr>
<tr>
<td>Expiry</td>
<td>9 months</td>
</tr>
</tbody>
</table>

### Technical Specifications

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Name</th>
<th>Unit</th>
<th>Cartridge Name</th>
<th>Pack</th>
<th>Unit</th>
<th>Expiry</th>
</tr>
</thead>
<tbody>
<tr>
<td>52014004</td>
<td>ASO</td>
<td>IU/mL</td>
<td>50 - 1000</td>
<td>50T</td>
<td>IU/mL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014007</td>
<td>CRP</td>
<td>mg/dL</td>
<td>0.5 - 160</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014010</td>
<td>RF</td>
<td>IU/mL</td>
<td>10 - 130</td>
<td>50T</td>
<td>IU/mL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014019</td>
<td>HbA1c</td>
<td>%</td>
<td>5 - 15</td>
<td>50T</td>
<td>%</td>
<td>9 months</td>
</tr>
<tr>
<td>52014013</td>
<td>Microalbumin</td>
<td>mg/dL</td>
<td>5 - 150</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014025</td>
<td>Ferritin</td>
<td>mg/dL</td>
<td>1 - 1750</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014033</td>
<td>IgM</td>
<td>mg/dL</td>
<td>70 - 430</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014030</td>
<td>IgG</td>
<td>mg/dL</td>
<td>1 - 1000</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014054</td>
<td>IgG</td>
<td>mg/dL</td>
<td>560 - 5000</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014052</td>
<td>IgM</td>
<td>mg/dL</td>
<td>15 - 400</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014055</td>
<td>Apo A1</td>
<td>mg/dL</td>
<td>15 - 500</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014056</td>
<td>Apo B</td>
<td>mg/dL</td>
<td>20 - 550</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014054</td>
<td>C5</td>
<td>mg/dL</td>
<td>14 - 400</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014055</td>
<td>C4</td>
<td>mg/dL</td>
<td>4 - 80</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014014</td>
<td>Cystatin – C</td>
<td>mg/dL</td>
<td>0.1 - 10</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
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<tr>
<td>52014036</td>
<td>hsCRP</td>
<td>mg/dL</td>
<td>0.15 - 10</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014044</td>
<td>Lp(a)</td>
<td>mg/dL</td>
<td>1 - 115</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014056</td>
<td>ID Marker</td>
<td>mg/dL</td>
<td>0.05 - 10</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014076</td>
<td>Ceruloplasmin</td>
<td>mg/dL</td>
<td>5.0 - 105</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014057</td>
<td>Haptoglobin</td>
<td>mg/dL</td>
<td>15 - 500</td>
<td>50T</td>
<td>mg/dL</td>
<td>9 months</td>
</tr>
<tr>
<td>52014050</td>
<td>Probe Cleaner</td>
<td>Once in 30 Days</td>
<td>100T</td>
<td>whichever comes earlier</td>
<td>9 months</td>
<td></td>
</tr>
</tbody>
</table>

Wide range of parameters available in convenient pack sizes

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**GLOBAL REVOLUTION AT ITS BEST**

AGAPPE DIAGNOSTICS SWITZERLAND GmbH
Kronenstrasse 14 – 8301 Chon, Switzerland.
Tel: +41 41 780 60 10 | Fax: +41 41 780 60 11 | info@agappeswiss.com | www.agappeswiss.com

YOUR BEST PARTNER IN DIAGNOSTICS
**Product Description**

Mispa-i3 is an automated Cartridge based specific protein analyser that offers the benefits of fully Auto analyser, such as high precision and quick turnaround results, for all protein assays.

**Clinical Profile Management**

1. Diabetes
2. Cardiovascular Risk
3. Acute Renal Dysfunction
4. Inflammation, Allergy & many more

**Increased workflow efficiency**

1. Dual Channel System: Nephelometry and Turbidimetry
2. Prefilled and sealed cartridges with convenient pack size
3. Enhanced reagent stability – up to 6 months for reagents
4. Barcode identification for test specific cartridges, sample and patient identification
5. Smart card calibration for reagent & cost saving
6. Auto-mixing, Incubation and measurements for fast results with less operator intervention
7. Secure interruption of assay runs for calibration and re-loading – no loss of data

**Confidence in results**

1. Proven nephelometric technology with increased sensitivity
2. 5 QC level testing for each parameter.
3. Optimal alignment of reagents and system
4. Process detection system to check false negative results

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**Benefits**

- Auto - Dilution | Auto - Washing | Mixing of the solution.

**Smart Data Management System**

1. Delivers a comprehensive overview of results for each patient with demographic details.
2. Integrates test results from multiple parameters for one patient ID
3. Simplifies data management and data transfer using RS232 port

**Innovative assay:**

1. NGSP certified HbA1c reagent.
2. hsCRP – A trendsetting assay acknowledged as independent marker of cardiovascular risk
3. Cystatin C – Early marker for the glomerular filtration rate
4. D-dimer– Early marker for deep vein thrombosis and pulmonary embolism

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**Confidence in results**

1. Proven nephelometric technology with increased sensitivity
2. 3 QC level testing for each parameter.
3. Optimal alignment of reagents and system
4. Prozone detection system to check false negative results

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**Simple 3 Test Assay Procedure**

1. Add sample in reagent cartridges
2. Load the cartridge in the analyser
3. After 5-8 minutes, result is printed

**Evaluation Report (NGSP)**

- Samples in HbA1c ranges outline in the NGSP method comparison procedure.
- For the method, comparison and quality analysis, 40 samples are analyzed by Agappe and by European reference laboratory, ESRL#10.

**Correlation Graph Mispa-i3 with HPLC (For HbA1c)**

**Efficient operation: Easy to use**

The key to analyzer’s efficiency is ease to operate.

Mastering the Mispa-i3 requires no special knowledge, which means it can be put to use almost immediately.

Single cartridge system with multi point smart card calibration system ensures the best manual calibration process and ensures error free testing for all the reagents for specific assay.

**Innovation at its finest**

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