Superior Science

- Hands-Free Testing with Combined Incubator/Reader
  - Analyzes test strip automatically once the incubation is complete
  - Allows batching of external tests with multiple ROSA quad incubators for high volume users

- Touch-Screen
  - Streamlines operation by giving the user the ability to quickly enter and select appropriate information

- Printable or Downloadable Results
  - Backs up 8000 test results to internal memory, and the SD card stores over 100,000 test results
  - Transmits results to a PC wirelessly or by using a standard USB cable, or to a LIMS network over Ethernet
  - Exports to Excel for analysis

- Sample ID
  - Recognizes sample ID input through the touch screen, an external keypad, an RFID, or a bar code reader

The Charm EZ system instantly identifies test strip color and automatically adjusts incubation time, temperature, and test calibration to match.

Self Diagnostics

- Chooses Correct Operation Automatically
  Based on the strip color, the Charm EZ system automatically enters the correct incubation time, temperature, and channel for the operator.

- Checks Sample Volume
  If the sample flow is incorrect (e.g., the wrong volume of milk is added), the Charm EZ system prompts the operator to start over.

- Checks Optics
  An optics check identifies previously run strips and when the lens needs cleaning.

The Charm EZ system reads “yellow” as:
- Incubation time = 8 min
- Temperature = 40 °C
- Channel = Chloramphenicol

*Fixed volume pipettes (300 μL) can be ordered from Charm.
Maximize your Investment

One Instrument, Multiple Tests: The Charm EZ system’s unprecedented versatility allows for a variety of different antibiotic tests to be run with a single instrument.

**Beta-lactam**
- **Charm 3 SL3** Beta-lactam
- **SLBL** Beta-lactam at SL
- **MRLBL1** Beta-lactam, 1-minute at MRL
- **MRLBL3** Beta-lactam, 3-minutes at MRL

**Aflatoxin**
- **SLAFMQ** Aflatoxin M1, Quantitative at SL
- **MRLAFMQ** Aflatoxin M1, Quantitative at MRL

**Other Antibiotics**
- **STREP** Streptomycin
- **NEO-STREP** Neomycin and Streptomycin
- **CHLOR** Chloramphenicol
- **QUIN** Quinolones
- **SULFA** Sulfonamides
- **TET** Tetracycline

**QUADS**
- **Russian Regulations**
  - Beta-lactam, Tetracycline, Streptomycin and Chloramphenicol at Custom Union Levels
- **QUAD1** Beta-lactam, Tetracycline, Sulfa Drugs, Quinolone at MRL
- **QUAD2** Macrolides-(Tylosin, Lincosamide, Erythromycin, Tilmicosin) and Gentamicin at MRL
- **QUAD3** Aminoglycosides-Neomycin, Streptomycins, Kanamycin and Spectinomycin at MRL

**Combo**
- **FLUSLBL** Flunixin and Beta-lactam
- **MRLBLTET** Beta-lactam and Tetracycline at MRL
- **MRLBLTET2** Beta-lactam and Tetracycline, 2-minutes at MRL
- **MRLBLRFTET2** Beta-lactam and Tetracycline, Customs Union countries (Russia, Kazakhstan, and Belarus) at MRL
- **TRIO** Beta-lactams, Sulphonamides, and Tetracyclines

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For most recent products and details, please contact Charm Science, Inc

Safe Level

Maximum Residue Level

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**Instrument Overview**

- **High Resolution Display**
  - Backlit, sunlight-readable alphanumeric display with 18 characters per swab site
- **Battery Recharge Port**
- **Touchscreen**
- **RS232** Serial port
- **USB**
- **Quick and Secure Strip Insertion**
- **Temperature Probe**
- **Rechargeable / Replaceable Battery**
  - 9 hour run-time
Specifications & Order Codes

<table>
<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit Dimensions</strong></td>
<td>17 x 16.4 x 7 cm (W x H x D)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>0.5 kg</td>
</tr>
<tr>
<td><strong>Screen Dimensions</strong></td>
<td>5.6 x 7.3 cm (W x H)</td>
</tr>
<tr>
<td><strong>Screen Display</strong></td>
<td>64 bit, LED backlit color 8.9 cm display</td>
</tr>
<tr>
<td><strong>User Interface</strong></td>
<td>Touch Screen</td>
</tr>
<tr>
<td><strong>Power Source (AC):</strong></td>
<td>12 V DC Adapters for 110 V / 60 Hz or 220 V / 50 Hz</td>
</tr>
<tr>
<td><strong>Auto Adapters</strong></td>
<td>12 V DC and 24 V DC (with converter)</td>
</tr>
<tr>
<td><strong>Calibration</strong></td>
<td>Factory Set (controls available for verification)</td>
</tr>
<tr>
<td><strong>Memory Capacity</strong></td>
<td>100,000 Tests</td>
</tr>
<tr>
<td><strong>Data Port</strong></td>
<td>USB and SD card slot</td>
</tr>
<tr>
<td><strong>Data Output</strong></td>
<td>Test ID, Sample ID, Operator ID, Test Result, Temperature, Date and Time</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Order Codes</th>
<th>Contains:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF-ROSA-EZ</td>
<td>Charm EZ system</td>
</tr>
<tr>
<td>LF-ROSA-EZ-US</td>
<td>Charm EZ US system</td>
</tr>
<tr>
<td>PWR-AUTO.CRDR</td>
<td>Power Adapter</td>
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<tr>
<td>PWR-CON-24/12</td>
<td>Power Converter</td>
</tr>
<tr>
<td>PRN-TERM-CITIZEN</td>
<td>Thermal Citizen Printer</td>
</tr>
</tbody>
</table>

Any two languages can be configured on each Charm EZ system. An operator can switch to his or her language without a special password.