

# Charm EZ<sup>®</sup> System

Rapid Testing for Antibiotics in Milk



for ROSA<sup>®</sup> Lateral Flow Strip Technology

## Simple Test Platform | For Antibiotic & Aflatoxin M1 Testing in Milk

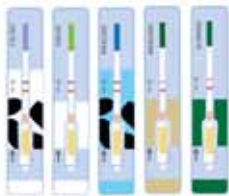
# Charm EZ<sup>®</sup>

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



## Charm EZ reads a broad range of ROSA<sup>®</sup> (Rapid One Step Assay) Tests

### Beta Lactam



- Charm 3 SL3** Charm 3 SL3 Beta-lactam
- SLBL** Safe Level Beta-lactam
- MRLBL1** Maximum Residue Limits Beta-lactam, 1-minute
- MRLBL3** Maximum Residue Limits Beta-lactam, 3-minutes
- SL KIWI** Safe Level Beta-Lactams and Cefalonium (New Zealand)

### Combo



- FLUSLBL** Flunixin and Beta-lactam
- MRLBLTET** Maximum Residue Limits Beta-lactam and Tetracycline
- MRLBLTET2** Maximum Residue Limits Beta-lactam and Tetracycline, 2-minutes
- MRLBLRFTET2** Maximum Residue Limits Beta-lactam and Tetracycline, Customs Union countries (Russia, Kazakhstan, and Belarus)

### Other Antibiotics



- STREP** Streptomycin
- NEO-STREP** Neomycin and Streptomycin
- CHLOR** Chloramphenicol
- QUIN** Quinolones
- SULFA** Sulfonamides
- TET** Tetracycline
- MACRO** Macrolides

### Aflatoxin



- SLAFMQ** Safe Level Aflatoxin M1, Quantitative
- MRLAFMQ** Maximum Residue Limits Aflatoxin M1, Quantitative

# Charm EZ Features and Benefits

The EZ enables **hands-free testing** with a combined incubator and reader. Once the incubation is complete, the EZ automatically analyzes the test strip. High volume users can **batch** external tests with multiple ROSA quad incubators.

A **touch screen** interface streamlines operation.

**Results** are at your fingertips. The EZ's internal memory backs up 8000 test results; and the SD card stores over 100,000 test results. Transmit results to a PC using a standard USB cable or wirelessly. Transmit results to a LIMS network over Ethernet. Regardless of your transfer method, EZ results are easily exported to Excel for analysis.

**Sample IDs** can be input with the touch screen, an external keypad, an RFID, or a bar code reader.

## Self Diagnostics | Prevents Errors

### The EZ Inputs Test Conditions Automatically

The EZ enters the incubation time, temperature, and channel for the operator. The EZ determines all this from the strip color.



The EZ reads **“yellow”** as:

- Incubation time = 8 min
- Temperature = 40 °C
- **Channel = Chloramphenicol**

### The EZ Checks Sample Volume

If the sample flow is incorrect (e.g., the wrong volume of milk is added), the EZ prompts the operator to start over.



\*Premeasured 300 µl pipettes can be ordered from Charm.

### The EZ Checks Optics

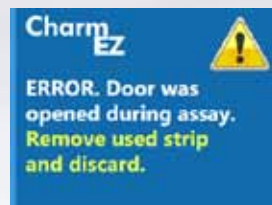
An optics check identifies previously run strips and when the lens needs cleaning.



\*To make cleaning the lens easy, you can remove the door with a few turns of an Allen wrench.

### The EZ Recognizes Invalid Tests

If the door is opened during the test, the test is invalid.






# Multilingual

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



# Specifications

	<b>Charm EZ</b>	LF-ROSA-EZ LF-ROSA-EZ-US
<b>Optional Accessories</b>	<b>Item</b>	<b>Item Number</b>
	12V Auto Adapter 24V---->12V Power Converter	PWR-AUTOCRD PWR-CONV-24/12
	Thermal Printer	PRN-THERMAL-SYS-LGEZ

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

