

Charm EZ[®] System

Rapid Testing for Antibiotics in Milk



for ROSA[®] Lateral Flow Strip Technology

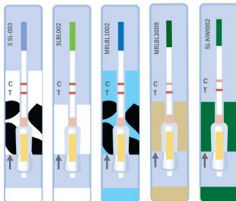
Charm EZ[®]

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[®] (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



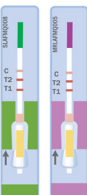
- FLUSLBL** Flunixin and Beta-lactam
- MRLBLTET** Maximum Residue Limits Beta-lactam and Tetracycline
- MRLBLTET2** Maximum Residue Limits Beta-lactam and Tetracycline, 2-minutes
- MRLBLRFTET2** Maximum Residue Limits Beta-lactam and Tetracycline, Customs Union countries (Russia, Kazakhstan, and Belarus)

Other Antibiotics



- STREP** Streptomycin
- CHLOR** Chloramphenicol
- QUIN** Quinolones
- SULFA** Sulfonamides
- TET** Tetracycline

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.

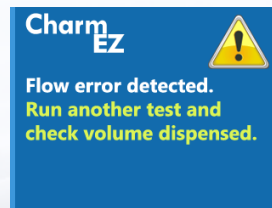


The EZ reads **"purple"** as:

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

The EZ Checks Sample Volume

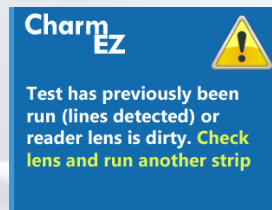
If the sample flow is incorrect (e.g., the wrong volume of milk is added), the EZ prompts the operator to start over.



*Premeasured 300 µl pipettes can be ordered from Charm.

The EZ Checks Optics

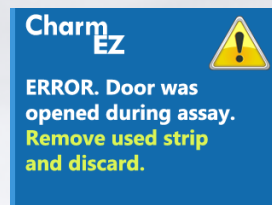
An optics check identifies previously run strips and when the lens needs cleaning.



*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

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

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

