

Charm EZ[®]

Charm EZ System—Rapid Testing for Antibiotics in Milk



- ✓ **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.

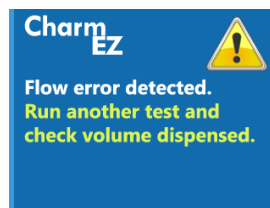


The Charm EZ system reads "yellow" as:

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

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.



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

Checks Optics

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



Maximize your Investment

One Instrument, Multiple Tests^A: 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** Charm 3 SL3 Beta-lactam
- SLBL** Beta-lactam at SL^B
- MRLBL1** Beta-lactam, 1-minute at MRL^C
- 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

^AFor most recent products and details, please contact Charm Science, Inc

^BSafe Level

^CMaximum Residue Level

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, Sulfonamides, and Tetracyclines

Instrument Overview



Multilingual



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



Specifications & Order Codes

Specifications	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 DC 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	

Order Codes	Order Codes:	Contains:
	LF-ROSA-EZ	Charm EZ system
	LF-ROSA-EZ-US	Charm EZ US system
	PWR-AUTOCRD	Power Adapter
	PWR-CON-24/12	Power Converter
	PRN-THERM-CITIZEN	Thermal Citizen Printer



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