Charm

EZ ®

Charm EZ System—Rapid Testing for Antibiotics in Milk

Charm EZ

✓ **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.
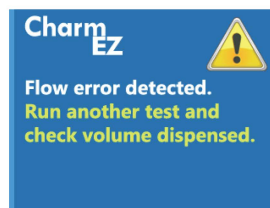
The Charm EZ system reads **"yellow"** as:
- Incubation time = 8 min
- Temperature = 40 °C
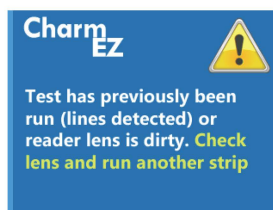- **Channel = Chloramphenicol**

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.

Charm EZ ⚠️

Flow error detected. Run another test and check volume dispensed.

*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.

Charm EZ ⚠️

Test has previously been run (lines detected) or reader lens is dirty. Check lens and run another strip

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	Sulfonamines
TET	Tetracycline

[A]For most recent products and details, please contact Charm Science, Inc
[B]Safe Level
[C]Maximum 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

Rechargeable / Replaceable Battery
9 hour run-time

High Resolution Display
Backlit, sunlight-readable alphanumeric display with 18 characters per swab site

Battery Recharge Port

Touchscreen

RS232
Serial port

Quick and Secure Strip Insertion

Temperature Probe

USB

Charm EZ

Assay in Progress
Time Left: 0:25
INCUBATOR TEMPERATURE: 56.2

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.

Charm EZ
キットをセットしてスタート
メニュー

Charm EZ
Insérez la bandelette avant de commencer
MENU

Charm EZ
Gazy Włóz do Start
MENU

Charm EZ
Inserte la tira para empezar
MENU

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 backlighted 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

CHARM
SCIENCES INC
NOTHING WORKS LIKE A CHARM

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