

ROSA : SL-6 Beta-lactam Test for Raw Commingled Milk



Charm SL-6 Beta Lactam Kit

SL-6 AT A GLANCE

- Detects all six US required beta-lactam drugs in a single test (Table 1)
- Closest test to Safe Level/Tolerance
- Rapid One Step Assay (part of ROSA family of tests)
- Approved by the NCIMS/FDA/AOAC-RI
- Results in 8 minutes!
- Save unnecessary rejection and disposal of 'safe' non-violative milk
- First on farm test for Cloxacillin detection at Safe Level/Tolerance

ACCURATE AND RELIABLE

Charm SL-6 is a simple and accurate test that detects all six required US beta-lactam[™] drugs within 30% of their safe level/tolerance in raw commingled milk. This precision sets a new standard in meeting regulatory levels of concern. Because SL-6 can be used by the farmer, hauler, fieldman, and processor, the dairy industry is assured a safer and more wholesome product, from farm to table.

Table 1: SENSITIVITY LEVELS (ppb)*		
BETA-LACTAMS	CHARM SL-6	SAFE LEVELS
Amoxicillin	7.1	10
Ampicillin	9.6	10
Cephapirin	18.7	20
Ceftiofur	37.5	50
Cloxacillin	8.3	10
Penicillin G	4.2	5

* Calculated 90% positive at 95% confidence limit

OTHER AVAILABLE ROSA TESTS FOR:

- Aflatoxin M1
- Enrofloxacin
- Beta-lactams (5 out of 6)
- Beta-lactams (MRL kit for E.U.)
- Tetracyclines
- Sulfadimethoxine/Sulfamethazine
- Sulfamethazine

RAPID AND EASY

SL-6 uses ROSA Technology based on lateral flow diffusion where all test ingredients are embedded in a single test strip. SL-6 requires only one step—just add milk to the strip, allowing for hands free, walk away convenience.



ROSA READER
PRINTOUT SAMPLE

Unit Serial Number 490
 Date: 17 AUG 2003
 Time: 10:17:51
 Operator: 1
 Channel: SLBL6
 Lot: 012
 Sample#: 123-456
 Limit: < 0
 Reading: -1563
 Result: NEGATIVE

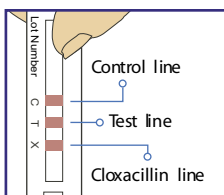
PROCEDURE



- 1 Add milk sample to SL-6 strip. Reseal strip and close incubator lid to start timer.



- 2 After 8 minutes, incubator beeps and 'test complete' light will flash. Remove SL-6 Strip.



- 3 **For unofficial testing:** Visually compare Test line (T) and Cloxacillin line (X) to the Control line (C).
For official testing: Insert valid test in ROSA Reader.

EQUIPMENT

ROSA Reader



ROSA Reader

- ▶ Results in just 5 seconds
- ▶ Download to printer or computer
- ▶ Stores 4500 data points
- ▶ Records sample ID, test type, operator ID, date, time, lot number, reading and result interpretation. It even sorts data by performance controls

ROSA Blue Incubator



ROSA Blue Incubator

- ▶ Quad and dual incubators
- ▶ Self timing with indicator lights/ beeper
- ▶ Count down timer display (on quad only)
- ▶ Auto Start when lid closed
- ▶ Auto Reset when lid opened

SL-6 KIT

- ▶ Available in 20, 100 or 500 test kits
- ▶ Kit Codes (lab): LF-SL6-20 ; LF-SL6-100 ; LF-SL6-500
- ▶ Kit Codes (farm): LF-SL6-20SUP ; LF-SL6-100SUP
- ▶ One year refrigerated shelf life
- ▶ 5 ppb Penicillin G/10 ppb Cloxacillin positive control included with every lab kit