



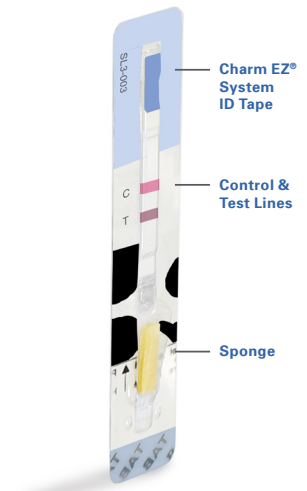
Charm 3 SL3 Beta-lactam Test for Milk

Product Overview

Charm® ROSA® (Rapid One Step Assay) technology is trusted by the dairy industry worldwide for fast and accurate milk residue screening.

The Charm 3 SL3 Beta-lactam Test (Charm 3 SL3) detects all six FDA targeted beta-lactam drugs, including cloxacillin. The test is approved by the National Conference on Interstate Milk Shipments (NCIMS) for screening milk trucks in the United States and matches established Safe Level/ Tolerance in milk.

The speed, precision, and sensitivity advantage of the Charm 3 SL3 test helps lower operating costs by receiving milk faster, reducing fuel costs, clearing good milk more quickly, and expediting production of a safe and wholesome product.



Charm ROSA Strip

Benefits of Charm 3 SL3 Test Include:

- Achieves results in 3 minutes
- Detects 6 beta-lactam drugs, including cloxacillin
- Incubates at $56 \pm 1^\circ\text{C}$
- Meets NCIMS approval for Appendix N Testing

Simple Procedure with the Charm EZ System



Add Sample



Incubate



Read Results in Less Than 5 Seconds



For Batch Processing

Incubate multiple strips simultaneously, then read results in the Charm EZ system.

Sensitivity in Milk

Sensitivity Levels in Milk		
Beta-lactam Drug	Charm 3 SL3 Sensitivity (ppb*)	Safe Level/Tolerance (ppb*)
Amoxicillin	8.4 ppb	10 ppb
Ampicillin	8.0 ppb	10 ppb
Ceftiofur [^]	79 ppb	100 ppb
Cephapirin	20 ppb	20 ppb
Cloxacillin	8.6 ppb	10 ppb
Penicillin G	3.8 ppb	5 ppb

[^] Ceftiofur parent drug sensitivity is approximately 1/2 that reported in the table
 * parts per billion, µg/kg or µg/L

Ordering Information

Order Codes	Each Kit Includes
LF-SL3-40NSK	Test Strips and Positive Controls
LF-SL3-100K	Test Strips and Positive Controls

See Operator's Manual for additional kits and order codes.