



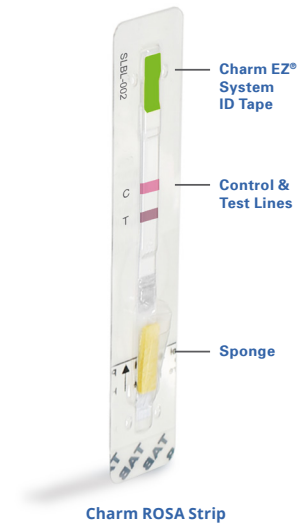
Charm SL Beta-lactam Test for Milk

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 SL® Beta-lactam Test (SLBL) meets US Tolerance Levels and Canadian MRL for 5 of the most widely used beta-lactam drugs. The SLBL test is specifically **designed to limit rejection** of non-violative milk compared to overly sensitive screening tests. By providing a close match to Tolerance Levels, the SLBL test ensures milk is safe and wholesome for processing and consumption. The SLBL test is approved to screen multiple species of milk including raw commingled cow, goat, sheep, and water buffalo under Appendix N of the US Pasteurized Milk Ordinance.

It is ideal for processors, haulers, and farms as it can be used for testing individual cow samples and pasteurized whole milk.



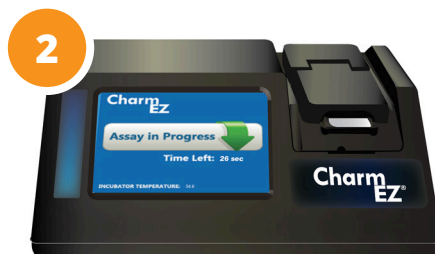
Benefits of SLBL Test Include:

- Achieves results in 8 minutes
- Detects 5 beta-lactams
- For use in cow, sheep, goat, and water buffalo milk
- Incubates at 56 ± 1 °C
- Meets NCIMS Approval for Appendix N Testing
- Meets Canadian MRL

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

Tolerance Levels in Milk			
Beta-lactam Drug	Charm SL Sensitivity (ppb*)	Safe Level (ppb*)	Canadian MRL (ppb*)
Amoxicillin	5.6 ppb	10 ppb	N/A
Ampicillin	8.5 ppb	10 ppb	10 ppb
Ceftiofur [^]	77 ppb	100 ppb	100 ppb
Cephapirin	13.7 ppb	20 ppb	20 ppb
Penicillin G	3.6 ppb	5 ppb	5.5 ppb
[^] Ceftiofur parent drug sensitivity is approximately 1/2 that reported in the table * parts per billion, µg/kg or µg/L			

Cross Reactivity in Milk

Intra-family Cross Reactivity Levels in Milk with High Confidence (ppb)		
Beta-lactams	Charm SL (ppb)	Canadian MRL (ppb)
Cefacettrile	30 ppb	
Cefadroxil	50 ppb	
Cefalexin	50 ppb	
Cefalonium	4 ppb	
Cefazolin	40 ppb	
Cefoperazone	15 ppb	
Cefquinome	30 ppb	
Cefurozime	15 ppb	
Cloxacillin	50 ppb	30 ppb
Dicloxacillin	50 ppb	
Nafcillin	100 ppb	
Oxacillin	50 ppb	
Ticarcillin	100 ppb	

Ordering Information

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

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

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