



Charm MRL Beta-lactam and Tetracycline 2-Minute Test (Advanced Sensitivity) 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 MRL Beta-lactam and Tetracycline 2-Minute Test (Advanced Sensitivity) (MRLBLTET2A) detects two families of antibiotic drugs at or below EU/CODEX Maximum Residue Limits (MRL) in cow, sheep, and goat milk.

Benefits of MRLBLTET2A Test Include:

- Achieves results in 2 minutes for cow milk
- Achieves results in 3 minutes for goat and sheep milk
- Detects 13 beta-lactam and 3 tetracycline drugs
- Meets EU/CODEX MRL
- Validated by ILVO Institute of Agricultural and Fisheries Research (ILVO), Belgium



Simple Procedure with the Charm EZ System





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



Sensitivity in Milk

Detection Ranges in Cow Milk at 0 to 7 °C						
Beta-lactam Drug	Detection Range (ppb*)	EU/CODEX MRL (ppb*)	Tetracycline Drug	Detection Range (ppb*)	EU/CODEX MRL (ppb*)	
Amoxicillin	2 to 3 ppb	4 ppb	Chlortetracycline	50 to 100 ppb	100/100 ppb	
Ampicillin	2 to 3 ppb	4 ppb	Oxytetracycline	50 to 100 ppb	100/100 ppb	
Cefacetrile	20 to 40 ppb	125 ppb	Tetracycline	10 to 30 ppb	100/100 ppb	
Cefalonium	1 to 3 ppb	20 ppb				
Cefazolin	20 to 40 ppb	50 ppb				
Cefoperazone	1 to 3 ppb	50 ppb		^ Ceftiofur parent drug sensitivity is approximately 1/2 that reported in the table § U.S. tolerance is 20 ppb cephapirin † Positive at least 95% of the time * parts per billion, μg/kg or μg/L		
Cefquinome	15 to 25 ppb	20 ppb				
Ceftiofur and Metabolites^	40 to 70 ppb	100/100 ppb	§ U.S. tolerance is 20 ppb ce			
Cephapirin	4 to 6 ppb	60 ^s ppb				
Cloxacillin	3 to 6 pbb	30 ppb				
Dicloxacillin	3 to 5 ppb	30 ppb				
Oxacillin	6 to 8 ppb	30 ppb				
Penicillin G	0.75 to 1.5 ppb	4/4 ppb				

Ordering Information

Order Codes	Each Kit Includes	
LF-MRLBLTET2A-40NSK	Test Strips	
LF-MRLBLTET2A-100K	Test Strips and Positive Controls	

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

