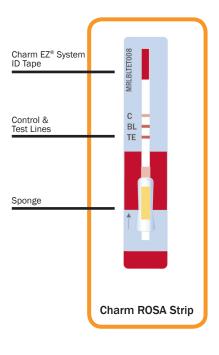
# Charm MRL Beta-lactam and Tetracycline Test for Milk



### **Product Overview**



Charm<sup>®</sup> ROSA<sup>®</sup> (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 Test** (MRLBLTET) for milk makes it easy to detect multiple veterinary drugs or antibiotic families using a single test.

The 8-minute MRLBLTET test also meets the 100 ppb EU MRL requirement for tetracycline drugs, a level which most countries have adopted in their milk regulations, e.g., Australia, China, Japan, Korea, Poland, New Zealand, Taiwan and Vietnam.

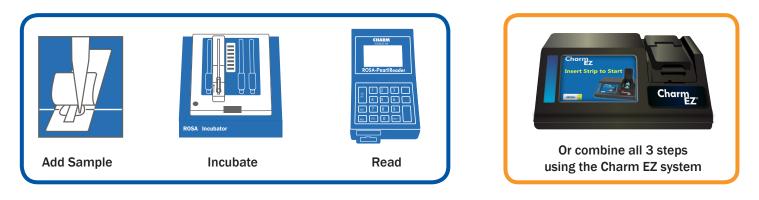
#### **MRLBLTET** Test:

Achieves results in 8 minutes

Detects beta-lactam drugs at or below EU/CODEX MRL in raw commingled milk

Meets 100 ppb EU MRL requirement for tetracycline drugs

### Simple Procedure







#### Sensitivity in Milk

Detection Ranges in Cow Milk at 0 to 7 °C		
Beta-lactam Drug	Detection Range (ppb <sup>A</sup> )	EU/CODEX MRL (ppb <sup>A</sup> )
Amoxicillin	2.5 to 4	4
Ampicillin	2.5 to 4	4
Cefacetrile	6 to 12	125
Cefalexin	15 to 30	100
Cefalonium	3 to 5	20
Cefazolin	8 to 16	50
Cefoperazone	4 to 8	50
Cefquinome	15 to 20	20
Ceftiofur and Metabolite <sup>B</sup>	10 to 20	100/100
Cephapirin	4 to 8	60 <sup>c</sup>
Cloxacillin	25 to 35	30
Dicloxacillin	20 to 30	30
Penicillin G	2 to 3	4/4
Tetracycline Drug	Detection Ranges (ppb <sup>A</sup> )	EU/CODEX MRL (ppb <sup>A</sup> )
Chlortetracycline	50 to 100	100/100
Oxytetracycline	50 to 100	100/100
Tetracycline	10 to 30	100

A parts per billion

 $^{\rm B}$  Ceftiofur parent drug sensitivity is approximately 1/2 those reported in the table

<sup>c</sup> U.S. Tolerance is 20 ppb cephapirin

# Ordering Info

Order Codes	Each Kit Includes
LF-MRLBLTET-20K LF-MRLBLTET-100K	Test Strips and Positive Controls

See Operator's Manual for additional kits and order codes



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