

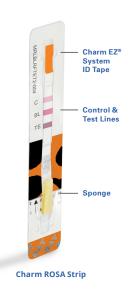
Charm MRL Beta-lactam and RF Tetracycline 2-Minute Test for Milk

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 MRL Beta-lactam and RF Tetracycline 2-Minute Test (MRLBLRFTET2) is the fastest combo test for the detection of beta-lactam and tetracycline drugs in milk... just 2 minutes! Charm Sciences designed this test to meet the specific requirements for dairies exporting milk products to the Customs Union Countries (Russia, Kazakhstan, and Belarus).

The 2-minute combination test is designed for use by dairy producer, milk intake, laboratory, field, transport, and regulatory personnel.



Benefits of MRLBLRFTET 2 Test Include:

- Achieves results in 2 minutes for cow milk
- Achieves results in 5 minutes for goat milk and 8 minutes for sheep milk
- Detects 13 beta-lactam and 4 tetracycline drugs
- Meets EU / CODEX Maximum Residue Limit
- Meets Custom Union Import Requirements

Simple Procedure with the Charm EZ System









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

Detection Ranges in Cow Milk at 0 to 7 °C		
Beta-lactam Drug	Detection Range† (ppb*)	EU/CODEX MRL (ppb*)
Amoxicillin	3 to 5 ppb	4 ppb
Ampicillin	3 to 4 ppb	4 ppb
Cefacetrile	30 to 50 ppb	125 ppb
Cefalonium	8 to 12 ppb	20 ppb
Cefazolin	15 to 30 ppb	50 ppb
Cefoperazone	1 to 2 ppb	50 ppb
Cefquinome	15 to 20 ppb	20 ppb
Ceftiofur and Metabolite^	40 to 70 ppb	100/100 ppb
Cephapirin	10 to 20 ppb	60⁵ ppb
Cloxacillin	10 to 20 ppb	30 ppb
Dicloxacillin	10 to 20 ppb	30 ppb
Oxacillin	10 to 20 ppb	30 ppb
Penicillin G	1.5 to 2.5 ppb	4/4 ppb
Tetracycline Drug	Detection Range† (ppb*)	Russian Technical Regulations (ppb*)
Chlortetracycline	6 to 10 ppb	10 [‡] ppb
Doxycycline	6 to 10 ppb	10 [‡] ppb
Oxytetracycline	6 to 10 ppb	10 ppb
Tetracycline	6 to 10 ppb	10 [‡] ppb

Ordering Information

Order Codes	Each Kit Includes
LF-MRLBLRFTET2-40NSK	Test Strips and Positive Controls
LF-MRLBLRFTET2-100K	Test Strips and Positive Controls

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



[†] Positive at least 95% of the time * parts per billion or μ g/kg ^ Ceftiofur parent drug sensitivity is at levels approximately % those reported in the table.

[§] U.S. tolerance is 20 ppb cephapirin. ‡ Russian Technical Regulation on Milk and Milk Products (TR TS 021/2011 and TR TS 033/2013).