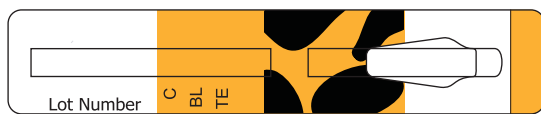


Charm® MRL Beta-lactam RF Tetracycline 2 Minute Combo Test for Raw Commingled Cow Milk



FASTEST COMBO TEST IN THE WORLD !

The Charm® Beta-lactam RF Tetracycline Test is the fastest **Combo** test for antibiotics in milk...just **2 minutes!** Charm Sciences has designed the new combination kit to meet the specific requirements for export of milk products to the **Russian Federation** (Federal Law No.88 FL 88, “Technical regulation on milk and dairy products”).



The 2 minute **Combo** test is designed for use by dairy producer, milk intake, laboratory, field, transport and regulatory personnel. The **Combo** test detects more beta-lactams in milk at or below EU MRL / CODEX levels based on positive detection 90% of the time with 95% confidence.

- ▶▶ Test Time: 2 minutes
- ▶▶ Approved by the Polish Veterinary Institute¹
- ▶▶ 2 tests in 1 test strip
- ▶▶ Rapid One Step Assay (ROSA®)
- ▶▶ Meets EU/ RF/ CODEX

The Charm **Combo** Test also meets the 100 ppb MRL requirement for tetracycline drugs, a level which most countries around the world have adopted in their milk regulations, e.g., Australia, China, Japan, Korea, New Zealand, Taiwan and Vietnam.

Charm Beta-lactam RF Tetracycline Combo Test: Sensitivity Levels in Milk (ppb, µg/kg)

Beta-lactams	2-minute Combo	Russian Federation (RF)	EU/CODEX MRL
Amoxicillin	5 - 7	4	4
Ampicillin	3 - 4	4	4
Cefacetrile	40 - 50	125	125
Cefalonium	3 - 5	20	20
Cefazolin	20 - 40	50	50
Cefoperazone	2 - 5	50	50
Ceftiofur & Metabolite	70	100	100 / 100
Cephapirin	6 - 10	60	60
Cloxacillin	20 - 30	30	30
Dicloxacillin	20 - 30	30	30
Penicillin G	2 - 3	10	4 / 4
Tetracyclines	2-minute Combo	Russian Federation ² (RF)	EU/CODEX MRL
Chlortetracycline	4 - 10	10	100
Doxycycline	2 - 3	10	100
Oxytetracycline	4 - 10	10	100
Tetracycline	1 - 3	10	100

¹ PIWET, PULAWY, February 2, 2011, 10/1738/ZH2/3343

² ≤ 7.2: Fit for human consumption. Between 7.2 and 12.8: Categorized as doubtful: samples will be sent for repeat confirmative testing and decisions will be based on the results of those second confirmative tests. > 12.8: Unfit for human consumption and subject to re-export or other use deemed fit by the Russian Federation.

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Utilizing ROSA (Rapid One Step Assay) lateral flow technology, the milk sample is added to the Charm **Combo** strip, incubated for 2 minutes and read in seconds on the ROSA Pearl Reader.

The speed, precision and convenience of the **Combo** test shortens turnaround time at milk intake, reduces fuel costs, and expedite production of a safe, wholesome and quality product. In addition, confirmation and dairy producer trace back clears good milk more quickly.

FASTEST COMBO TEST IN THE WORLD !



TEST OVERVIEW

①



Add milk sample to **Combo** Strip. Reseal strip and close incubator lid to start auto-timer.

②



After appropriate incubation (2 minutes), incubator beeps and “test complete light” will flash. Remove **Combo** Strip.

③



Visually inspect **Combo** Strip and read in ROSA Reader.

ORDER CODES



- ▶ Charm MRL Beta-lactam RF Tetracycline 2-minute Test Kits with 4 ppb Penicillin G/ 100 ppb Oxytetracycline Positive Controls

20 Tests: LF-MRLBLRFET2-20K
100 Tests: LF-MRLBLRFET2-100K
500 tests: LF-MRLBLRFET2-500K



Charm Sciences, Inc.

659 Andover Street, Lawrence, MA 01843-1032, USA
Tel: +1.978.687.9200 | Fax: +1.978.687.9216 | Email: info@charm.com | www.charm.com

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