Charm ROSA Tetracycline-SL (Dilution Confirmation) Test
for Milk

8 minutes

Product Overview

Charm EZ® System ID Tape

Control & Test Lines

Sponge

TET-SL-004

C
T

Charm ROSA Strip
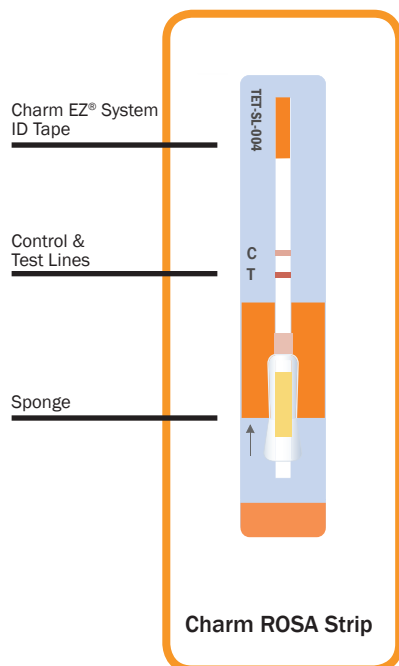
Charm® Rapid One Step Assay (ROSA®) technology is trusted by the dairy industry worldwide for fast and accurate milk residue screening. The **Charm ROSA Tetracycline-SL (Dilution Confirmation) Test (TET-SL)** detects three tetracycline drug residues in raw commingled milk at or below the EU/CODEX and Canadian Maximum Residue Limits (MRL) and is confirmed with a dilution step to meet US Tolerance Levels. The TET-SL test, with orange strips, is approved for the NCIMS Tetracycline Pilot Program.

Benefits of TET-SL Test Include:

- Achieves results in 8 minutes
- Detects tetracycline, chlortetracycline, and oxytetracycline drugs
- Incubates at 56 ± 1 °C
- Detects Tetracyclines at levels less than 100 ppb, but is confirmed with a dilution step to meet US tolerance 300 ppb
- Approved for the NCIMS Tetracycline Pilot Program
- Used on all Charm ROSA equipment compatible with beta-lactam testing: ROSA-M Reader, ROSA Pearl-X Reader, and Charm EZ system

Simple Procedure with the Charm EZ System
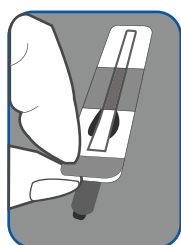
Peel Strip
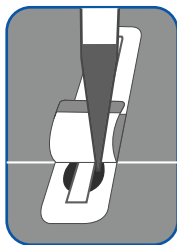
Add Raw Milk Sample

Incubate

Ex. of Charm EZ system screen

ASSAY TYPE	TET
DATE	12JUN2017
OPERATOR ID	CHARM SCIENCES
SAMPLE ID	4256
LOT NUMBER	001
READING	-1075
RESULT	NEGATIVE

Ex. of ROSA Pearl-X Reader

TETR

DATE: 06/12/2017
SAMPLE: 4256
OPERATOR: CHARM SCIENCES
READING:-1075
RESULTS: NEGATIVE

ROSA Pearl-X **Reader**

Ex. of ROSA-M Reader

TETR

DATE: 06/12/2017
SAMPLE: 4256
OPERATOR: CHARM SCIENCES
READING:-1075
RESULTS: NEGATIVE

ROSA-M Reader

Read using Charm EZ system, ROSA Pearl-X Reader or ROSA-M Reader.

Refer to manual for complete directions.

CHARM
SCIENCES INC

Rapid One Step Assay

Sensitivity in Milk

TABLE 1. UNDILUTED Sensitivity[D] - Detection Ranges in Cow Milk at 0 to 7 °C			
Concentration-Response Information — Displayed as % Positive of n=30 tests			
Concentration (ppb, parts per billion, µg/kg or µg/L)	[A]Chlortetracycline	[A]Oxytetracycline	[AB]Tetracycline
15			30
25	0	3	97
30			100
50	37	63	100
75	97	97	
100	100	100	100
300	100	100	100
EU/CODEX MRL and Canadian AMRL (µg/kg or µg/L)	100	100	100
US Tolerance (ppb)	300	300	300
Calculated 90/95 % Detection Level (ppb)	96	94	46

[A]90 % positive with 95 % confidence detection level which is at least 25 % less than the US Tolerance
[B]25 % less than MRL/AMRL
[D]Nothing stated herein, including detection level information, shall be understood to imply any warranty or guaranty.

TABLE 2. DILUTED Sensitivity[D] - Detection Ranges in Incurred Cow Milk at 0 to 7 °C			
Concentration-Response Information — Displayed as % Positive of n=30 tests			
Concentration (ppb, parts per billion, µg/kg or µg/L)	[C]Chlortetracycline	[C]Oxytetracycline	[C]Tetracycline
20			0
40			10
60	3	3	70
80			100
120	27	37	
180	23	77	
240	93	90	
290	97		
300	100	100	100
US Tolerance (ppb)	300	300	300
Calculated 90/95 % Detection Level (ppb)	292	243	74

[C]Demonstrated a 90/95 % sensitivity which is at least 25 % less than the US Tolerance.
[D]Nothing stated herein, including detection level information, shall be understood to imply any warranty or guaranty.

Ordering Info

Order Codes	Each Kit Includes
LF-TET-SL-20K LF-TET-SL-100K LF-TET-SL-500K	Test Strips, Positive Controls, and Dilution Buffer

See Operator's Manual for additional kits and order codes