



## Charm QUAD2 Test for Milk

### Product Overview

The Charm® QUAD®2 Test (QUAD2) delivers rapid and accurate results using ROSA® (Rapid One Step Assay) lateral flow technology. The QUAD2 test detects macrolides drugs in raw commingled cow, goat, and sheep milk. The QUAD2 test may be used to test at or below EU/CODEX and China Maximum Residue Limits (MRL).

### Benefits of QUAD2 Test Include:

- Achieves results in 5 minutes
- Detects macrolides
- Incubates at 56 ± 1 °C for cow, goat, and sheep milk
- Meets EU/CODEX MRL and China MRL
- Validated by ILVO - Institute for Agricultural and Fisheries (ILVO), Belgium



Charm ROSA Strip

### Simple Procedure with the Charm EZ System



Add Sample



Incubate



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

**Macrolide-free raw milk yields negative results at least 99% of the time.  
Table Sensitivity - Detection Ranges in Cow Milk at 0 to 7 °C**

Macrolide Drug	Detection Range <sup>†</sup> (ppb*)	EU/CODEX MRL (ppb*)	China MRL (ppb*)
Erythromycin	10 to 30 ppb	40 ppb	40 ppb
Lincomycin	100 to 150 ppb	150 ppb	150 ppb
Pirlimycin	50 to 100 ppb	100 ppb	100 ppb
Spiramycin	150 to 200 ppb	200 ppb	
Tilmicosin	25 to 40 ppb	50 ppb	50 ppb
Tylosin	10 to 30 ppb	50/100 ppb	50 ppb

† Positive at least 95% of the time  
\* parts per billion, µg/kg or µg/L

## Ordering Information

Order Codes	Each Kit Includes
LF-QUAD2-40NSK	Test Strips
LF-QUAD2-100K	Test Strips and Positive Controls

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