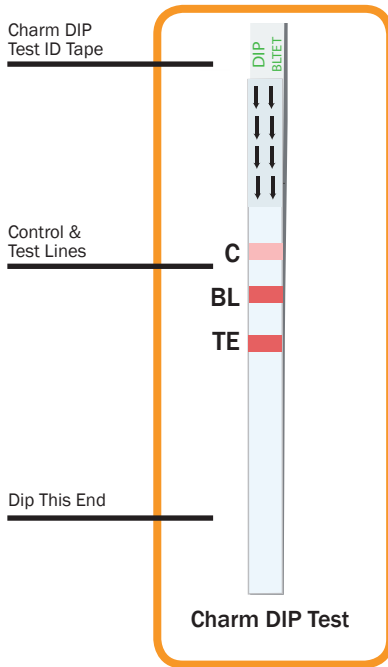


# Charm MRL Beta-lactam and Tetracycline DIP Test for Milk

10  
minutes

## Product Overview



Charm® technology is trusted by the dairy industry worldwide for fast and accurate milk residue screening. The **Charm MRL Beta-lactam and Tetracycline DIP Test** detects Beta-lactam and Tetracycline drugs in raw commingled milk. The test follows a one-step procedure. Simply dip the strip into the sample and visually interpret within minutes.

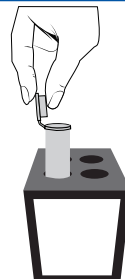
### Benefits Include:

- Achieves results in 10 minutes
- Detects Beta-lactam and Tetracycline drugs
- Incubates at  $56 \pm 1$  °C
- Meets EU/CODEX MRL

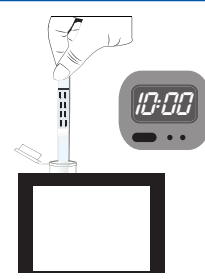
## Simple Procedure



Pipet 300  $\mu$ L sample.



Place vial into Charm DIP Test Incubator.



Incubate strip and visually read.



# Sensitivity in Milk

Sensitivity – Detection Ranges in Cow Milk at 0 to 7 °C		
Tetracycline Drug	Detection Range <sup>A</sup> (ppb <sup>B</sup> )	EU/CODEX MRL (ppb <sup>B</sup> )
Chlortetracycline	50 to 75	100
Doxycycline	50 to 75	100
Oxytetracycline	40 to 60	100
Tetracycline	50 to 75	100
Beta-lactam Drug	Detection Range <sup>A</sup> (ppb <sup>B</sup> )	EU/CODEX MRL (ppb <sup>B</sup> )
Amoxicillin	2 to 3	4
Ampicillin	2 to 3	4
Cefacetrile	25 to 50	125
Cefalonium	4 to 8	20
Cefazolin	8 to 10	50
Cefoperazone	1 to 2	50
Cefquinome	15 to 20	20
Ceftiofur and Metabolites <sup>C</sup>	25 to 50	100 / 100
Cefuroxime	75 to 100	100
Cephapirin	8 to 10	60 <sup>D</sup>
Cloxacillin	5 to 8	30
Dicloxacillin	4 to 6	30
Nafcillin	20 to 30	N/A
Oxacillin	10 to 15	N/A
Penicillin G	2 to 3	4 / 4

<sup>A</sup> Positive at least 95% of the time

<sup>B</sup> Parts per billion, µg/kg or µg/L

<sup>C</sup> Ceftiofur parent drug sensitivity is approximately 1/2 that reported in the table.

<sup>D</sup> U.S. tolerance is 20 ppb cephapirin.

## Ordering Info

Order Codes	Each Kit Includes
DT-MRLBLTET-20K DT-MRLBLTET-100K	Test strips, pipets, and sample vials

See Operator's Manual for additional kits and order codes