

milksensor[®] 4

CBTSC10i

Detection of β -lactams, Tetracyclines, Streptomycin and Chloramphenicol



milksensor[®] 4 is a colloidal gold immunochromatography assay that detects β -lactams, Tetracyclines, Streptomycin and Chloramphenicol residue at the same time in raw milk.

Test protocol

1



Add 200 μ l of milk and mix

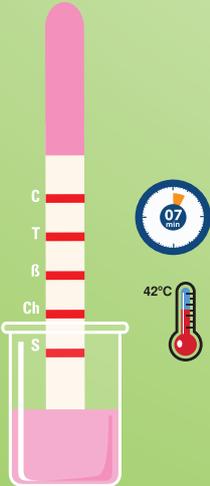
2



Incubate the microwell

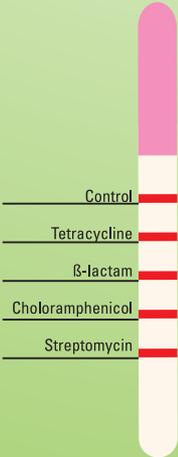


3



Dip the dipstick into microwell
Start second incubation

4



Interpret the result

Detection Limits

β-Lactams	Detection limit (µg/L)	MRL (µg/L)
Penicillin G	2-4	4
Penicillin V	2,5-4	-
Piperacillin	4-6	-
Ampicillin	4	4
Amoxicillin	4	4
Oxacillin	20-30	30
Cloxacillin	20-30	30
Dicloxacillin	15-20	30
Nafcillin	10-20	30
Cefquinome	10-20	20
Cefacetrile	20-30	125
Cefalonium	3-5	20
Cephapirin	6-10	60
Ceftiofur	80-100	100
Cefazolin	40-60	50
Cephalexin	600-800	100
Cefalotin	6-10	-
Cefoperazone	4-6	50

Tetracyclines	Detection limit (µg/L)	MRL (µg/L)
Tetracycline	6-8	100
Oxytetracycline	6-8	100
Chlortetracycline	6-8	100
Doxycycline	6-8	100

Streptomycin	Detection limit (µg/L)	MRL
Streptomycin	60-80	200
Dihydrostreptomycin	80-100	200

Chloramphenicol	Detection limit (µg/L)	MRL
Chloramphenicol	0,3	0

Interpretation of results

The diagram illustrates six test strips with the following results:

- Strip 1:** Control (C) line is present, Tetracycline (T) line is present, β-lactam (β) line is present, Chloramphenicol (Ch) line is present, Streptomycin (S) line is present. **Negative β-lactam, Tetracycline, Chloramphenicol and Streptomycin**
- Strip 2:** Control (C) line is present, Tetracycline (T) line is present, β-lactam (β) line is absent, Chloramphenicol (Ch) line is present, Streptomycin (S) line is present. **Tetracycline: Positive**
- Strip 3:** Control (C) line is present, Tetracycline (T) line is absent, β-lactam (β) line is present, Chloramphenicol (Ch) line is present, Streptomycin (S) line is present. **β-lactam Positive**
- Strip 4:** Control (C) line is present, Tetracycline (T) line is absent, β-lactam (β) line is present, Chloramphenicol (Ch) line is present, Streptomycin (S) line is present. **Chloramphenicol Positive**
- Strip 5:** Control (C) line is present, Tetracycline (T) line is absent, β-lactam (β) line is present, Chloramphenicol (Ch) line is present, Streptomycin (S) line is present. **Streptomycin Positive**
- Strip 6:** Control (C) line is absent, Tetracycline (T) line is present, β-lactam (β) line is present, Chloramphenicol (Ch) line is present, Streptomycin (S) line is present. **No-control line Invalid test**

Related Products

milksensor® incubator



mayasan®
biotech

Mayasan A.S.
Omerli cad. 18, Hadimkoy 34555
Istanbul/Turkey
Phone: +90 212 639 6565
sales@mayasan.com
www.mayasan.com