

# milksensor<sup>®</sup> 4

## CBTSC10i

### Detection of $\beta$ -lactams, Tetracyclines, Streptomycin and Chloramphenicol



**milksensor<sup>®</sup> 4** is a colloidal gold immunochromatography assay that detects  $\beta$ -lactams, Tetracyclines, Streptomycin and Chloramphenicol residue at the same time in raw milk.

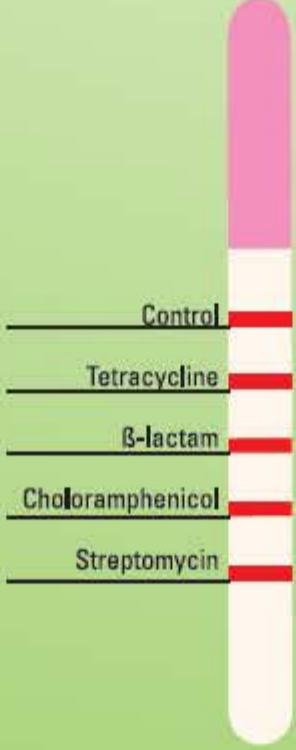
### Test protocol

**1**   
Add 200 $\mu$ l of milk and mix

**2**   
Incubate the microwell



**3**   
Dip the dipstick into microwell  
Start second incubation

**4**   
Interpret the result

Control	Red line
Tetracycline	Red line
$\beta$ -lactam	Red line
Chloramphenicol	Red line
Streptomycin	Red line

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### Detection Limits

<b>β-Lactams</b>	<b>Detection limit ( µg/L)</b>	<b>MRL ( µg/L)</b>
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
Cefacetrole	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

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

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

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

### Interpretation of results

The diagram illustrates six test strips with their results for Control, Tetracycline, β-lactam, Chloramphenicol, and Streptomycin. The strips are labeled C, T, B, Ch, and S respectively.

- Control:** All lines (C, T, B, Ch, S) are present and red.
- Tetracycline: Positive:** Line T is pink, while C, B, Ch, and S are red.
- β-lactam Positive:** Line B is pink, while C, T, Ch, and S are red.
- Chloramphenicol Positive:** Line Ch is pink, while C, T, B, and S are red.
- Streptomycin Positive:** Line S is pink, while C, T, B, and Ch are red.
- No-control line Invalid test:** Line C is missing, while T, B, Ch, and S are red.

### Related Products

**milksensor<sup>®</sup> incubator**



**mayasan<sup>®</sup>**  
biotech

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