



**The Blue Yellow II ADVANTAGE**

- High volume, cost-effective testing
- Dependable results in less than three hours

**The CowSide II ADVANTAGE**






- Cost-effective, efficient management of your hospital herd
- Allows proper segregation of treated animals

**Comparison of Charm Broad-Spectrum Antibiotic Inhibition Tests**

Charm Blue Yellow II	CowSide II
Detects 29 antimicrobial drugs at or below EU MRLs	Detects 11 drugs at or below US safe levels and 24 drugs at or below EU MRLs
Detects beta-lactams, tetracyclines, sulfonamides, aminoglycosides, and macrolides	Detects beta-lactams, tetracyclines, sulfonamides, aminoglycosides, and macrolides Sensitivities to tetracyclines are enhanced
Lowest false-positive rate of evaluated antimicrobial inhibition tests for milk	Approved by the New Zealand Food Safety Authority (NZFSA)
Screens raw commingled and ultra-pasteurized cow milk Test goat and sheep milk with a modified procedure	Screens raw commingled and ultra-pasteurized cow milk
Visual results or interpret with an electronic scanner	Visual results that last up to 16 hours
192-single service well kits	20- and 100-single service well kits
Validated by: <ul style="list-style-type: none"> <li>• Institute for Agricultural and Fisheries Research (ILVO-T&amp;V, Belgium)</li> <li>• Polish Veterinary Research Institute (PIWET)</li> <li>• Chief Veterinary Inspectorate (Warsaw, Poland)</li> </ul>	Validated by: <ul style="list-style-type: none"> <li>• Polish Veterinary Research Institute (PIWET)</li> <li>• Chief Veterinary Inspectorate (Warsaw, Poland)</li> <li>• State Committee for Veterinary Medicine of Ukraine</li> </ul>



**The Blue Yellow II PROCEDURE**

-  **Separate Wells**
-  **Add Milk**
-  **Seal and Incubate**
-  **Read Results**  
or  
 **Scan**

**The CowSide II PROCEDURE**

-  **Place Vials in Holes of Box**
-  **Add Milk**
-  **Incubate**
-  **Read Results**

Choose Charm for the closest match to Safe Levels and Tolerances.



**Superior  
Sensitivity  
for a  
Healthier  
World**



Antimicrobial drugs	Blue Yellow II (ppb) at reading time of 3 hrs (ppb)	CowSide II (ppb) Read Time: 2.45 - 3 hours	EU MRL (µg/kg)	US Safe Level/ Tolerance (ppb)
<b>Beta-lactams</b>				
Penicillin G	1-2	2-3	4	5
Ampicillin	2-3	3-4	4	10
Amoxicillin	2-3	3-4	4	10
Ceftiofur*	50-100	50-100	100	100
Cephapirin	4-6	8-10	60	20
Cefalonium	10-15	15-20	20	N/A
Cefoperazone	20-30	20-30	50	N/A
Cloxacillin	10-20	10-25	30	10
Dicloxacillin	10-20	5-10	30	N/A
Oxacillin	8-10	5-10	30	N/A
<b>Tetracyclines</b>				
Oxytetracycline	75-100	75-100	100	300
Tetracycline	75-100	50-100	100	300
Chlortetracycline	150-200	200-300	100	300
<b>Sulphonamides</b>				
Sulfamethazine	75-125	75-125	100	10
Sulfadimethoxine	50-75	25-50	100	10
Sulfadiazine	80-100	40-60	100	10
<b>Aminoglycosides</b>				
Neomycin	75-150	100-150	500	150
Gentamicin	75-100	75-150	100	30
<b>Macrolides</b>				
Erythromycin	100-150	75-100	40	50
Spiramycin	400-500	300-400	200	N/A
Tylosin	20-30	20-30	50	50
Pirlimycin	50-100	25-50	100	400
<b>Other antibiotics</b>				
Dapsone	1-2	1-2	0	N/A
Trimethoprim	200-300	200-300	50	N/A

\* ceftiofur total metabolite

**Order Codes**

Blue Yellow II Tests with Standards (available in kits of 192)	MI-BY-II-192K
Blue Yellow II Tests without Standards (available in kits of 192)	MI-BY-II-192NSK
CowSide II Tests (available in kits of 100)	TBD

**Charm Inhibition Tests for Milk**



BlueYellowII

CowSide® II  
test

