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MRL Levels

| Incubation Time                                               | Incubation Temperature | Tape Color | Antibiotics                                                    | Approval                                                                          |
|---------------------------------------------------------------|------------------------|------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Charm Neomycin, Streptomycin and Gentamicin Test (NEOSTREP-G) |                        |            | Aminoglycosides                                                | ILVO (Belgium / EU)                                                               |
| 5 minutes                                                     | 56 °C                  |            |                                                                |                                                                                   |
| Charm PP Beta-lactam Test (PPBL)                              |                        |            | Beta-lactam                                                    |                                                                                   |
| 8 minutes                                                     | 56 °C                  |            |                                                                |                                                                                   |
| Charm PLA-Beta-lactam and Tetracycline Test (PLABLTET)        |                        |            | Beta-lactam<br>Tetracycline                                    |                                                                                   |
| 8 minutes                                                     | 56 °C                  |            |                                                                |                                                                                   |
| Charm Tylosin, Florfenicol and Thiamphenicol Test (TYLFLT)    |                        |            | Tylosin<br>Florfenicol<br>Thiamphenicol                        |                                                                                   |
| 8 minutes                                                     | 40 °C                  |            |                                                                |                                                                                   |
| Charm QUAD® Test (QUAD)                                       |                        |            | Beta-lactam<br>Chloramphenicol<br>Streptomycin<br>Tetracycline | ILVO (Belgium / EU)<br>GOST (Russia)<br>PIWET (Poland)<br>HBLFA Rotholz (Austria) |
| 5 minutes                                                     | 40 °C                  |            |                                                                |                                                                                   |
| Charm QUAD1 Test (QUAD1)                                      |                        |            | Beta-lactam<br>Quinolone<br>Sulfonamide<br>Tetracycline        |                                                                                   |
| 5 minutes                                                     | 56 °C                  |            |                                                                |                                                                                   |
| Charm QUAD2 Test (QUAD2)                                      |                        |            | Macrolide                                                      | ILVO (Belgium / EU)                                                               |
| 5 minutes                                                     | 56 °C                  |            |                                                                |                                                                                   |
| Charm QUAD3 Test (QUAD3)                                      |                        |            | Aminoglycoside                                                 |                                                                                   |
| 5 minutes                                                     | 56 °C                  |            |                                                                |                                                                                   |
| Charm MRL Aflatoxin M1 Quantitative Test (MRLAFMQ)            |                        |            | Aflatoxin M1                                                   | ILVO (Belgium / EU)                                                               |
| 15 minutes                                                    | 40 °C                  |            |                                                                |                                                                                   |

Simple Procedure with the Charm EZ® System

1

Add milk to test strip.

2

Close door to incubate/read.

3

Results in seconds/minutes.

Incubate multiple strips simultaneously, then read results on the Charm EZ system.

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Analysengeräte, Spezialreagenzien, Schnelltests zur Untersuchung von: Getreide, Futtermittel, Mehle, Milch u. Milchprodukte & Rohmilch  
Tests auf Antibiotika & Mykotoxine - Schnellanalyse der Betriebshygiene, Produktsicherheit & Haltbarkeit von Lebensmittel – Peel Plate Mikrobiologische Tests

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zeitgemäße Mikrobiologie

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S & Xgrain  
zeitgemäße Getreidemessung



Charm® ROSA® Lateral Flow Antibiotic Tests

Rapid Antibiotic Testing in Milk





US Tolerance Level

| Incubation Time                                             | Incubation Temperature | Tape Color | Antibiotics                          | Approval               |
|-------------------------------------------------------------|------------------------|------------|--------------------------------------|------------------------|
| Charm ROSA Beta-lactam 30 Second Test (BL30SEC)             |                        |            | Beta-lactam                          | NCIMS (US)             |
| 30 seconds                                                  | 56 °C                  |            |                                      |                        |
| Charm 3 SL® Beta-lactam Test (Charm 3 SL3)                  |                        |            | Beta-lactam                          | NCIMS (US)             |
| 3 minutes                                                   | 56 °C                  |            |                                      |                        |
| Charm SL Beta-lactam Test (SLBL)                            |                        |            | Beta-lactam                          | NCIMS (US)             |
| 8 minutes                                                   | 56 °C                  |            |                                      |                        |
| Charm Flunixin and Beta-lactam Test (FLUSLBL)               |                        |            | Beta-lactam Flunixin                 | NCIMS (US)             |
| 8 minutes                                                   | 56 °C                  |            |                                      |                        |
| Charm TRIO® Test (TRIO)                                     |                        |            | Beta-lactam Sulfonamide Tetracycline | NCIMS (US)             |
| 3 minutes                                                   | 56 °C                  |            |                                      |                        |
| Charm ROSA SULF Test (SULF)                                 |                        |            | Sulfonamide                          | NCIMS (US)             |
| 8 minutes                                                   | 56 °C                  |            |                                      |                        |
| Charm Tetracycline-SL (Dilution Confirmation) Test (TET-SL) |                        |            | Tetracycline                         | NCIMS (US)             |
| 8 minutes                                                   | 56 °C                  |            |                                      |                        |
| Charm SL Aflatoxin M1 Quantitative Test (SLAFMQ)            |                        |            | Aflatoxin M1                         | US Collaborative Study |
| 8 minutes                                                   | 45 °C                  |            |                                      |                        |
| Charm SL Aflatoxin M1 Test (SLAFM)                          |                        |            | Aflatoxin M1                         |                        |
| 3 minutes                                                   | 56 °C                  |            |                                      |                        |

US Tolerance/MRL Levels

| Incubation Time                  | Incubation Temperature | Tape Color | Antibiotics     | Approval                                                |
|----------------------------------|------------------------|------------|-----------------|---------------------------------------------------------|
| Charm Amphenicol Test (AMPH)     |                        |            | Amphenicol      | ILVO (Belgium / EU)<br>PIWET (Poland)<br>SCSM (Belarus) |
| 8 minutes                        | 40 °C                  |            |                 |                                                         |
| Charm Chloramphenicol Test (CAP) |                        |            | Chloramphenicol | SCSM (Belarus)<br>PIWET (Poland)                        |
| 8 minutes                        | 40 °C                  |            |                 |                                                         |
| Charm Sulfa Test (SULF-MRL)      |                        |            | Sulfonamide     | EMBRAPA (Brazil)<br>GOST (Russia)                       |
| 8 minutes                        | 56 °C                  |            |                 |                                                         |
| Charm Streptomycin Test (STREP)  |                        |            | Streptomycin    | SCSM (Belarus)<br>PIWET (Poland)<br>GOST (Russia)       |
| 8 minutes                        | 56 °C                  |            |                 |                                                         |

US Tolerance/MRL Levels

| Incubation Time                                | Incubation Temperature | Tape Color | Antibiotics                  | Approval          |
|------------------------------------------------|------------------------|------------|------------------------------|-------------------|
| Charm Gentamicin Test (GENT)                   |                        |            | Gentamicin                   |                   |
| 8 minutes                                      | 56 °C                  |            |                              |                   |
| Charm Tetracycline Test (TET)                  |                        |            | Tetracycline                 |                   |
| 8 minutes                                      | 56 °C                  |            |                              |                   |
| Charm Florfenicol and Thiamphenicol Test (FLT) |                        |            | Florfenicol<br>Thiamphenicol |                   |
| 8 minutes                                      | 40 °C                  |            |                              |                   |
| Charm Pirlimycin Test (PIRL)                   |                        |            | Pirlimycin                   |                   |
| 8 minutes                                      | 56 °C                  |            |                              |                   |
| Charm Quinolone Test (QUIN)                    |                        |            | Quinolones                   | EMPBRAPA (Brazil) |
| 3 minutes                                      | 56 °C                  |            |                              |                   |

MRL Levels

| Incubation Time                                                       | Incubation Temperature | Tape Color | Antibiotics                 | Approval                                                         |
|-----------------------------------------------------------------------|------------------------|------------|-----------------------------|------------------------------------------------------------------|
| Charm Australian Beta-lactam Test (AUSBL)                             |                        |            | Beta-lactam                 |                                                                  |
| 3 minutes                                                             | 56 °C                  |            |                             |                                                                  |
| Charm MRL Beta-lactam 1-Minute Test (MRLBL1)                          |                        |            | Beta-lactam                 | ILVO (Belgium / EU)<br>PIWET (Poland)<br>HBLFA Rotholz (Austria) |
| 1 minutes                                                             | 56 °C                  |            |                             |                                                                  |
| Charm MRL Beta-lactam 3-Minute Test (MRLBL3)                          |                        |            | Beta-lactam                 | ILVO (Belgium / EU)<br>HBLFA Rotholz (Austria)                   |
| 3 minutes                                                             | 56 °C                  |            |                             |                                                                  |
| Charm MRL Beta-lactam Test (MRLBL)                                    |                        |            | Beta-lactam                 | PIWET (Poland)<br>HBLFA Rotholz (Austria)                        |
| 8 minutes                                                             | 56 °C                  |            |                             |                                                                  |
| Charm MRL Beta-lactam and Tetracycline 2-Minute Test (MRLBLTET2)      |                        |            | Beta-lactam<br>Tetracycline | ILVO (Belgium / EU)                                              |
| 2 minutes                                                             | 56 °C                  |            |                             |                                                                  |
| Charm MRL Beta-lactam and Tetracycline 2-Minute Test (MRLBLTET2A)     |                        |            | Beta-lactam<br>Tetracycline | ILVO (Belgium / EU)                                              |
| 2 minutes                                                             | 56 °C                  |            |                             |                                                                  |
| Charm MRL Beta-lactam and Tetracycline Test (MRLBLTET)                |                        |            | Beta-lactam<br>Tetracycline | ILVO (Belgium / EU)<br>EMBRAPA (Brazil)<br>PIWET (Poland)        |
| 8 minutes                                                             | 56 °C                  |            |                             |                                                                  |
| Charm MRL Beta-lactam and RF Tetracycline 2-Minute Test (MRLBLRFTET2) |                        |            | Beta-lactam<br>Tetracycline | ILVO (Belgium / EU)<br>PIWET (Poland)                            |
| 2 minutes                                                             | 56 °C                  |            |                             |                                                                  |