

## Tylosin/Tilmicosin & Quinolones & Lincomycin Rapid Test Kit

Order No.: JC1126

READ COMPLETELY BEFORE USE

Version No.: 2022-1

### Intended Use

The Tylosin/Tilmicosin & Quinolones & Lincomycin Rapid Test Kit is a lateral flow assay that determines a qualitative level for the presence of tylosin, tilmicosin, quinolones and lincomycin antibiotic residues in raw cow's milk. This test is designed for on-site rapid field detection or daily control in laboratories.

### Limit of Detection ( $\mu\text{g}/\text{kg}=\text{ppb}$ )

Antibiotic	EU MRL ( $\mu\text{g}/\text{kg}$ )	LOD ( $\mu\text{g}/\text{kg}$ )
Tylosin	50	30
Tilmicosin	50	15
Lincomycin	150	50
Quinolones		
Antibiotic	EU MRL ( $\mu\text{g}/\text{kg}$ )	LOD ( $\mu\text{g}/\text{kg}$ )
Enrofloxacin	100	8-15
Danofloxacin	30	10-20
Oxolinic Acid	*	3-6
Enoxacin	/	6-12
Pefloxacin	/	4-6
Marbofloxacin	75	15-30
Ciprofloxacin	100	15-24
Flumequine	50	100-150
Norfloxacin	/	6-10
Cinoxacin	/	2-4
Ofloxacin	/	20-40
Lomefloxacin	/	2-4
Orbifloxacin	/	20-30
Nadifloxacin	/	50-60

\* This drug is not for use in animals from which milk is produced for human consumption.

/ No EU MRL

### Scop of Application

Raw cow's milk, finished milk

### Kit Contents

NO.	Name	Specs	Remark
1	Test strips	12×8 strips	96 strips in total
2	Microwells	12×8 wells	96 wells in total
3	Negative control	1	
4	Positive control	1	Tylosin: 30ppb Enrofloxacin: 15ppb Lincomycin: 50ppb
5	Pipette	1	
6	Pipette tips	100	
7	Microwell holder	1	
8	QR code	1	(Optional)

### Materials Required but Not Provided

No.	Name	Remark
1	Micropipette	(20 $\mu\text{L}$ -200 $\mu\text{L}$ )
2	Timer	
3	Incubator	
4	Strip reader	(Optional)

### Sample Preparation

No sample preparation necessary.

### Quality Control Preparation

- Negative Control  
Pipette 2mL of deionized water into the negative control bottle, blend vigorously until the solid content dissolves completely. Get the negative control sample ready for use.
- Positive Control  
Pipette 200 $\mu\text{L}$  of the prepared negative control into the positive control microwell, pipette up and down until the solid content dissolves completely. Get the positive control sample ready for use.
- Pipette 200 $\mu\text{L}$  of each prepared control sample into the reaction microwell and follow the testing procedure.

**IMPORTANT: The reconstituted positive control should be used immediately.**

### Test Procedure

**Note: READ COMPLETELY BEFORE USE!**

All reagents and kit components should reach room temperature

(20-25°C) before use. Shake the milk vigorously to ensure sample homogeneity.

### Method 1: Operate with incubator

- Remove the cover of the tube and take appropriate number of test strips and microwells and immediately cover the tube. Re-store the remaining components at 2-8°C.
- Place the microwells into the wells of the incubator (40°C).
- Using a single channel pipette (Optionally, using a disposable pipette), add 200 $\mu\text{L}$  of milk sample to each microwell. Dissolve the coating conjugate in the microwell by pipetting the content up and down for 5 or 6 times.
- Incubate the sample for 2 minutes at 40°C and then put one test strip into one well.
- Let the test strip develop color for 5 minutes at 40°C.
- Remove the absorbent pad and interpret test results within 1 minute.

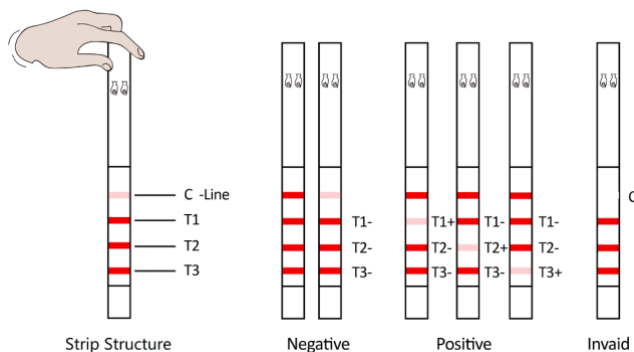
### Method 2: Operate without incubator

- Remove the cover of the tube and take appropriate number of test strips and microwells and immediately cover the tube. Re-store the remaining components at 2-8°C.
- Allow the required test strips, microwells and milk sample to room temperature (20-25°C) before use.
- Using a single channel pipette (Optionally, using a disposable pipette), add 200 $\mu\text{L}$  of milk sample to each microwell. Dissolve the coating conjugate in the microwell by pipetting the content up and down for 5 or 6 times.
- Incubate the sample for 2 minutes at room temperature (20-25°C) and then put one test strip into one well.
- Let the test strip develop color for 5 minutes at room temperature (20-25°C).
- Remove the absorbent pad and interpret test results within 1 minute.

### Interpretation of the Results

- Visual interpretation

A color line always appearing in the upper section of the test strip indicates that the test strip is working properly. This line is Control Line (C). Line(s) in the lower section of the test strip indicate the test result(s) for Tylosin/Tilmicosin, Quinolones, Lincomycin.



T1: Tylosin/Tilmicosin    T2: Quinolones    T3: Lincomycin

Color Intensity	Result	Analysis
T line $\geq$ C line	Negative	Target analyte(s) in the sample is lower than the limit of detection.
T line < C line or T line invisible	Positive	Target analyte(s) in the sample is higher than or equal to the limit of detection.
C line invisible	Invalid	Improper operation or the strip is invalid.

## 2 Interpretation by reader

Please read the result in 1 minute and refer to the instruction manual of the strip reader.

### Precautions

- 1 Adhere to the instructions of test procedures. Do not run more than 8 tests at one time.
- 2 Do not use the kits beyond the expiration date.
- 3 Please don't touch the membrane on the strips.
- 4 Slightly remove microwell sealer to prevent the powder from being released from the wells.
- 5 The sample to be tested must be a homogeneous liquid which cannot be agglomerated, fermented, rancid precipitated, etc., and cannot be colostrum.
- 6 Avoid direct sunlight and direct blows during testing.
- 7 Do not re-use pipette tips, test strips or microwells.
- 8 The unsealed microwells should be used within 1 hour.
- 9 Do not take tap-water, distilled water, or deionized water as a

negative control.

- 10 This test method is just used for rapid screening purpose; if positive results are occurred, please verify them by a quantitative method.
- 11 Considering that all materials, containers and devices exposed to the sample are contaminated with harmful substance, please wear protective gloves and safety glasses while using the kit.
- 12 The components in this test kit have been quality control tested as a standard batch unit. Do not mix components from different lot numbers.
- 13 Any problem encountered during usage, please contact with the supplier.

### Storage and Shelf Life

- 1 Storage: The kits should be stored at a dry place away from the sunlight and the storage temperature is 2-8°C.

### DO NOT FREEZE!

- 2 Shelf life: 12 months.
- 3 Production date, expiration date and lot number please refer to the label on the out package.

### Technical Service Contact Information

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