

QMLE Test Kit

(Quinolone & Macrolides & Lincomycin & Erythromycin)

Principle

This product utilizes the high affinity antibodies and capture protein against quinolone, macrolides, lincomycin and erythromycin antibiotics, which can easily identify these potential hazardous substances in milk without any instrument.

1. Detection Limit (LOD) in Raw milk sample

Quinolone	LOD (µg/L)	Quinolone	LOD (µg/L)
Enrofloxacin	8-10	Enoxacin	25
Dannofloxacin	8-12	Sarafloxacin	55
Flumequine	40-50	Ofloxacin	20
Difloxacin	20	Ciprofloxacin	6-8
Norfloxacin	8	Pefloxacin	20
Oxolinic acid	70-90	Lomefloxacin	10-15
Marbofloxacin	10	Fleoroxacin	20
Macrolides	LOD (µg/L)	Macrolides	LOD (µg/L)
Tilmikosin	50	Tylosin	5
Erythromycin	3 µg/L	Lincomycin	2 µg/L

2. Kit components

- Test Strip: 96 pcs / package.
- Kit instruction

3. Operations

- Read the instructions before experiment. Bring the test kit and samples to room temperature. Milk samples should be fully liquid without any agglomeration and deposition.
- Take out required wells and strips from the package, and make proper marks. Please use the test strips within 1h. Seal the cap of the bottles and store the rest of the unused kit.
- Take 200ul of the milk sample into the microwell, then repeatedly absorb up and down for 5 times to mix the sample with the reagent in the wells completely. The mixture should be pink, and then start the timer.

Note: In case you are sampling with plastic pipet, please add sample to the MARKER LINE on the microwell.

- Incubate for **3min** at 20-26°C without heating, and then insert the test strip into the well with the "**MAX**" end fully dipped in to the mixed reagent and sample.
- Incubate for **7min** at 20-26°C without heating. Take out the strip; determine the result according to **Part 4**.

4. Result Determination

There are 5 lines on the strip, **Control line, Lincomycin-lactams Line, Quinolonecyclines Line, Macrolides Line and Erythromycin Line**, which are briefly used as "**Line C**", "**Line L**", "**Line Q**", "**Line M**" and "**Line E**". The test results will depend on the color of these lines. The following diagram describes the result determination.

INVALID

Line C has no color. **In this case, the test will be invalid.**

NEGATIVE

Lincomycin Negative: Compare the color of Line L with Line C, if the color of Line L **is deeper than** Line C,

the result will be **negative**.

Quinolone Negative: Compare the color of Line Q with Line C, if the color of Line Q **is deeper than** Line C, the result will be **negative**.

Macrolides Negative: If you can see **the color of Line M**, then the result will be **negative**.

Erythromycin Negative: Compare the color of Line E with Line C, if the color of Line E **is deeper than** Line C, the result will be **negative**.

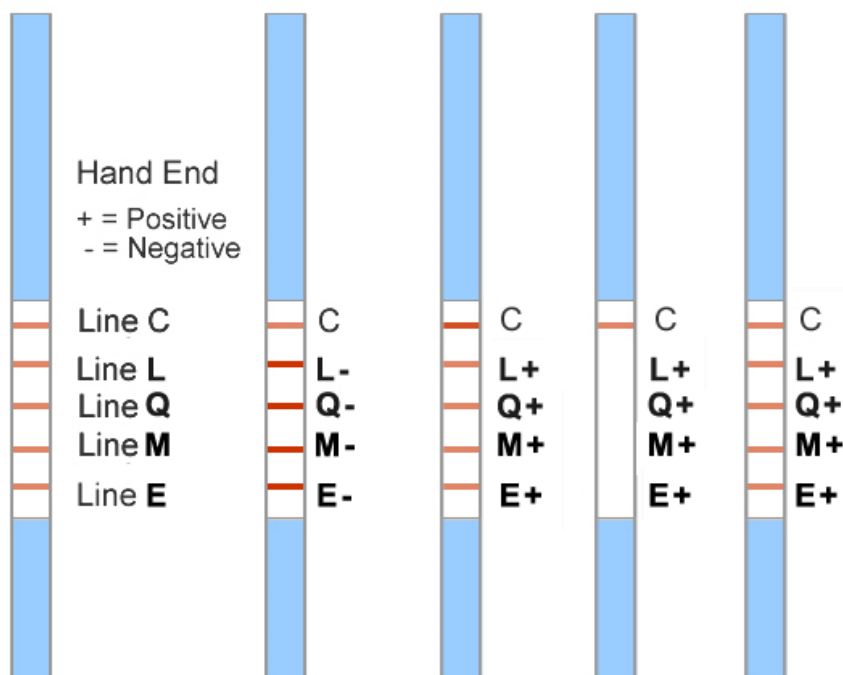
POSITIVE

Lincomycin Positive: Compare the color of Line L with Line C, if the color of Line L **is lighter than or The same as** Line C, the result will be positive. If there is **no Line L**, the result is also **positive**.

Quinolone Positive: Compare the color of Line Q with Line C, if the color of Line Q **is lighter than or The same as** Line C, the result will be positive. If there is **no Line Q**, the result is also **positive**.

Macrolides Positive: If there is **no Line M**, the result is **positive**.

Erythromycin Positive: Compare the color of Line E with Line C, if the color of Line E **is lighter than or the same as** Line C, the result will be **positive**, if there is **no Line E**, the result is also **positive**.



PLEASE NOTICE **Line C is used as a quality indicator**, which will always appear regardless of the L/Q/M/E line. If Control line does **NOT** appear, this indicates that the result is **invalid**. Users please check the kit insert again and repeat the assay with new test strip.

5. Storage

2-8°C in cool dark place, do not freeze. The kit is valid for 12 months after manufacture date.

Lot number and expired date are printed on the package.

6. Notice and Precautions for a successful experiment.

Please perform the assay following the instruction, do not touch the membrane of the strip.

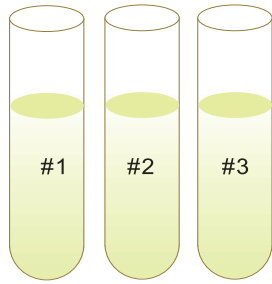
Please seal the bottle after taking out required strips.

This strip is used for only once; please do not use it repeatedly.

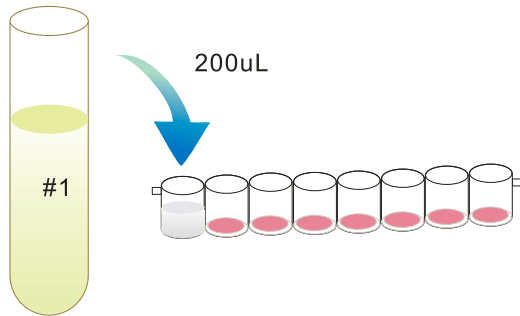
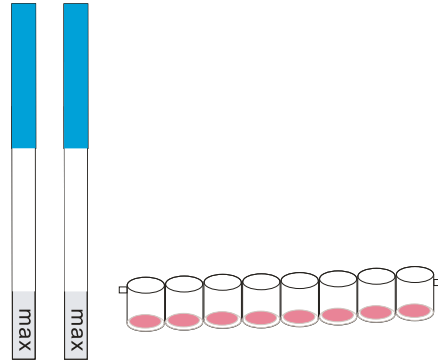
This kit is only for screening test, positive result should be further confirmed with other method.

Schematic Assay Steps

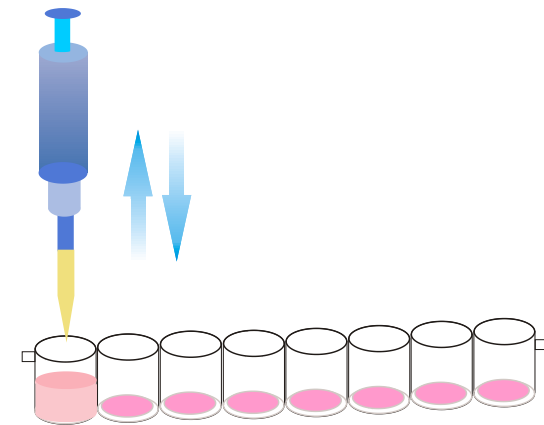
1. Bring all test samples to room temperature; number them to keep record.



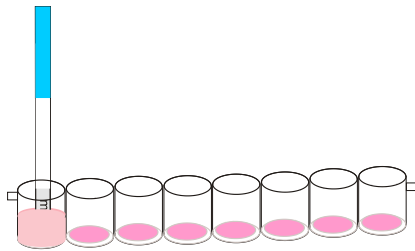
2. Take test kit according to your sample number and also number the kit wells to keep record and consistency.



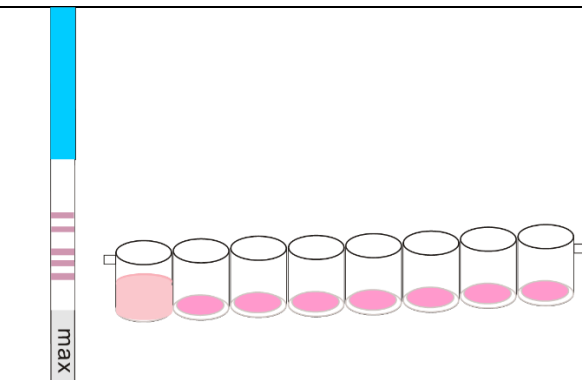
3. Take 200ul sample into the wells using pipet. You can also then put the well into the well holder to avoid sample spill.



4. Absorb up and down for 5 times to mix sample with reagent completely. Start the timer when the mixture is pink. **Incubate for 3 min at 20-26°C without heating.**



5. Insert the "MAX" end of the strip into the mixture; **Incubate for 7 min at 20-26°C without heating again.**



6. Take out the strip; judge the result according to **kit instruction.**

Ring Biotechnology Co., Ltd

E-mail: export@ringbio.com diego@nbgen.com Web: www.ringbio.com

Add: Building 3, Zhongtongtai TechnoPark, No. 11, Kechuang 14th St, Beijing 100176, CHINA

Tel: +86-10-56267496 Technical Support & Service: +86-13811393460