

TCBMA 5 in 1 Rapid Test Kit

(Tetracyclines / Cephalexin / Beta-lactams / Melamine / Aflatoxin M1)

Art. No.: 100051-96T

Principle

This product utilizes the high affinity antibodies and capture protein against tetracyclines, cephalixin, beta-lactams, melamine and aflatoxin M1, which can easily identify these potential hazardous substances in milk without any instrument.

1. Detection Limit (LOD) in Raw milk sample

Tetracyclines	MRL($\mu\text{g/L}$)	LOD($\mu\text{g/L}$)	Tetracyclines	MRL($\mu\text{g/L}$)	LOD($\mu\text{g/L}$)
Tetracycline	100	20-30	Doxycycline	-	20-30
Oxytetracycline	100	30-40	Chlortetracycline	100	30-40
Cephalexin	MRL($\mu\text{g/L}$)	LOD($\mu\text{g/L}$)			
Cephalexin	100	6-8			
Beta-lactams	MRL($\mu\text{g/L}$)	LOD($\mu\text{g/L}$)	Cephalosporins	MRL($\mu\text{g/L}$)	LOD($\mu\text{g/L}$)
Amoxicillin	4	2-3	Cefquinome	20	6-8
Ampicillin	4	1.5-2	Ceftiofur	100	60-80
Penicillin G	4	1	Cephapirin	60	4-6
Procaine benzylpenicillin	4	1.8-2.5	Cefazolin	50	30-40
Cloxacillin	30	2-4	Cefoperazone	50	2-3
Oxacillin	30	2-4	Cefacetrile	125	15-30
Nafcillin	30	8-10	Cefalonium	20	1.5-2
Dicloxacillin	30	2-3	Cefalotin	-	6-10
Piperacillin	-	2-3	Cefepime	-	4-6
Benzathine	-	1.5-2.5			
Melamine	MRL($\mu\text{g/L}$)	LOD($\mu\text{g/L}$)	Aflatoxin M1	MRL($\mu\text{g/L}$)	LOD($\mu\text{g/L}$)
Melamine	2500	30-50	Aflatoxin M1	0.5	0.3-0.4

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 40 °C**, and then insert the test strip into the well with the "**Immersed**" end fully dipped in to the mixed reagent and sample.
- Incubate for **7min at 40 °C**. Take out the strip; determine the result according to **Part 4**.

4. Result Determination

There are 6 lines on the strip, **Control line, Tetracyclines Line, Cephalixin Line, Beta-lactams Line, Melamine Line and Aflatoxin M1 Line**, which are briefly used as "**Line C**", "**Line T1**", "**Line T2**", "**Line T3**", "**Line T4**" and "**Line T5**". 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

Negative: Compare the color of Line T1/T2/T3/T4/T5 with Line C, if the color of Line T1/T2/T3/T4/T5 **is deeper than** Line C, the result will be **Negative**

POSITIVE

Tetracyclines Positive: Compare the color of Line T1 with Line C, if the color of Line T1 **is lighter than or equal to** Line C, the result will be positive. If there is **no Line T1**, the result is also **positive**.

Cephalixin Positive: Compare the color of Line T2 with Line C, if the color of Line T2 **is lighter than or equal to** Line C, the result will be positive. If there is **no Line T2**, the result is also **positive**.

Beta-lactams Positive: Compare the color of Line T3 with Line C, if the color of Line T3 **is lighter than or equal to** Line C, the result will be positive. If there is **no Line T3**, the result is also **positive**.

Melamine Positive: Compare the color of Line T4 with Line C, if the color of Line T4 **is lighter than or equal to** Line C, the result will be positive. If there is **no Line T4**, the result is also **positive**.

Aflatoxin M1 Positive: Compare the color of Line T5 with Line C, if the color of Line T5 **is lighter than or equal to** Line C, the result will be positive. If there is **no Line T5**, the result is also **positive**.

PLEASE NOTICE **Line C is used as a quality indicator**, which will always appear regardless of the T1/T2/T3/T4/T5 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.

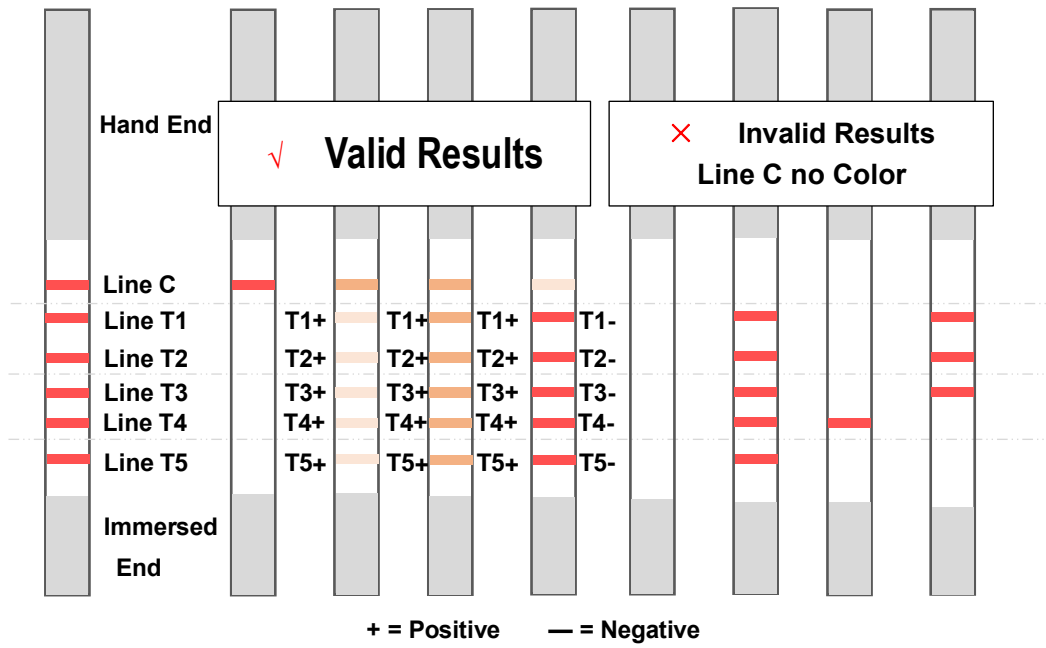
6. Notice and Precautions for a successful experiment.

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.



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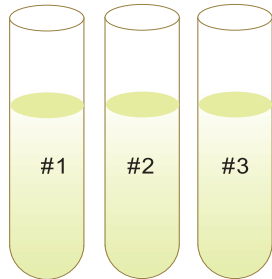
E-mail: export@ringbio.com diego@nbgen.com Web: www.ringbio.com

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

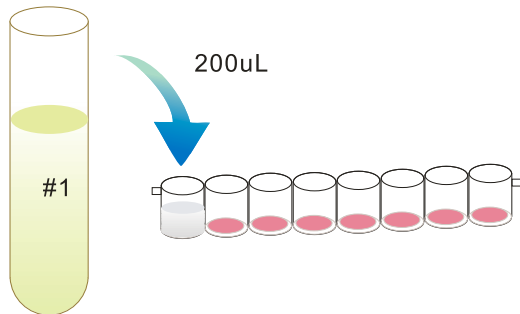
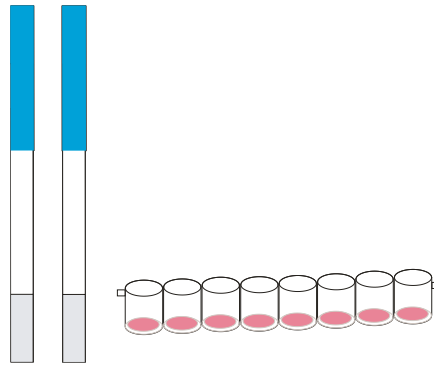
Tel: +86-10-56267496 Technical Support & Service: +86-18600362934

Schematic Assay Steps

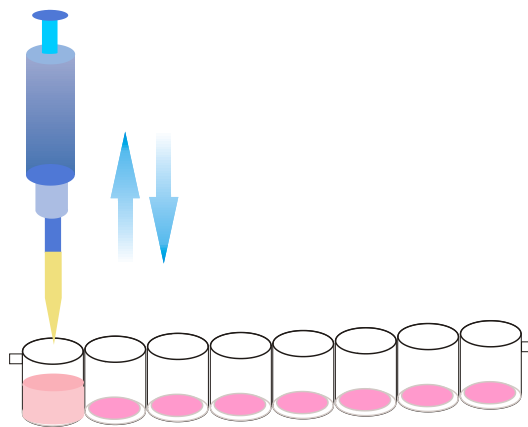
1. Bring all test samples to room temperature; number them to keep record.



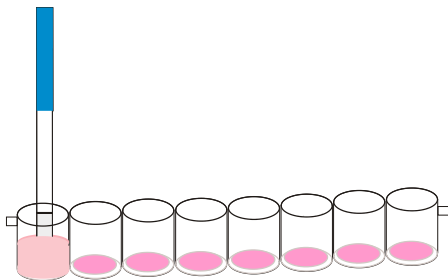
2. Take test kit according to your sample number and also number the kit wells to keep record and consistency.



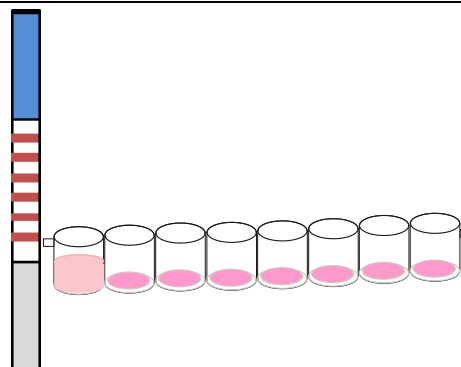
3. Take 200ul sample into the wells using pipet. You can also then put the well into the well holder to avoid sample spill.



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 40 °C.**



5. Insert the "**Immersed**" end of the strip into the mixture; **Incubate for 7 min at 40 °C again.**



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

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