

QuaTest BTSQ 4-in-1 Test Kit (Beta/Tetra/Sulfa/Quino)

Principle

Art. No.: 100029-96T

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

1. Detection Limit (LOD) in Raw milk sample

β-lactams	MRL(μg/L)	LOD(μg/L)	Cephalosporins	MRL(μg/L)	LOD(μg/L)
Penicillin G	4	1-1.5	Cefquinome	20	10
Ampicillin	4	2-3	Cefacetile	125	15
Amoxicillin	4	3-4	Cefalonium	20	3
Oxacillin	30	4	Cefoperazone	50	2
Cloxacillin	30	3	Cephapirin	60	6
Dicloxacillin	30	5	Cefazolin	50	30
Nafcillin	30	12	Cefuroxime	-	150
Benzathine benzylpenicillin	-	2	Ceftiofur	100	50-70
Procaine Penicillin	-	2	-	-	-
Tetracyclines	MRL(μg/L)	LOD(μg/L)	Tetracyclines	MRL(μg/L)	LOD(μg/L)
Tetracycline	100	10	Doxycycline	100	10
Oxytetracycline	100	10	Chlortetracycline	100	10
Sulfonamides	MRL(μg/L)	LOD(μg/L)	Sulfonamides	MRL(μg/L)	LOD(μg/L)
Sulfamethizole	-	50	Sulfamonomethoxine	-	20
Sulfadiazine	100	40	Sulfaquinoxaline	100	50
Sulfadimidine	25	10	Sulfachlorpyridazine	100	40
Sulfachloropyridine	-	20	Sulfamethoxypridazine	100	40
Quinolones	MRL(μg/L)	LOD(μg/L)	Quinolones	MRL(μg/L)	LOD(μg/L)
Enrofloxacin	100	4-8	Enoxacin	-	25
Danofloxacin	30	8-12	Sarafloxacin	-	20
Flumequine	50	20	Ofloxacin	-	10
Difloxacin	-	20	Ciprofloxacin	100	6-8
Norfloxacin	-	8	Pefloxacin	-	20
Marbofloxacin	75	10	Fleroxacin	-	20
Lomefloxacin	-	10-15	-	-	-

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.

- d) Incubate for **3min at room temperature**, and then insert the test strip into the well with the "Immersed" end fully dipped in to the mixed reagent and sample.
- e) Incubate for **7min at room temperature**. Take out the strip; determine the result according to **Part 4**.

4. Result Determination

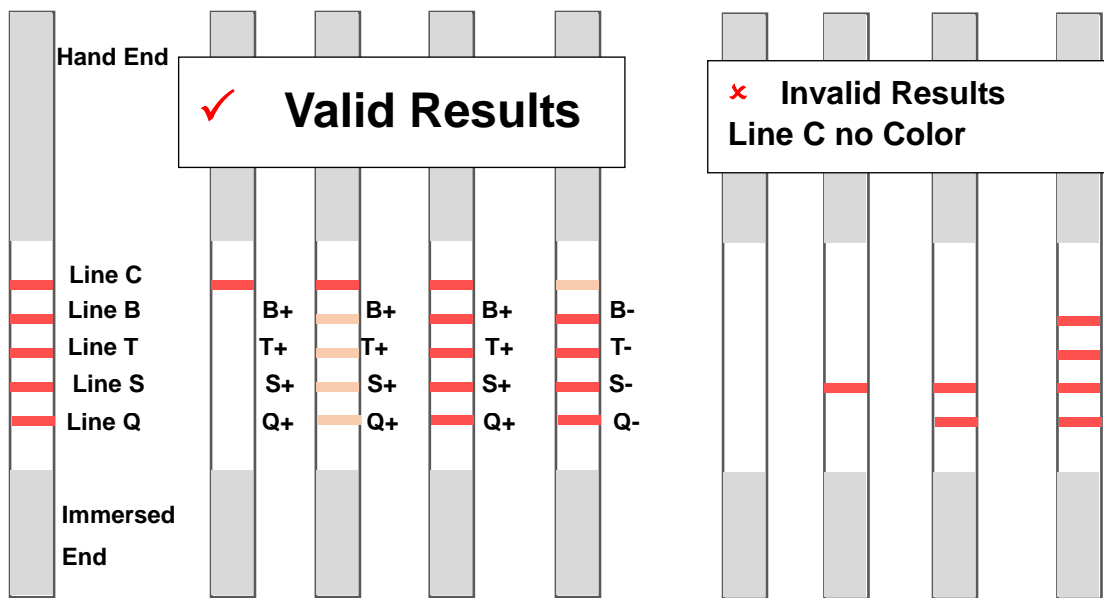
There are 5 lines on the strip, **Control line, Beta-lactams Line, Tetracyclines Line, Sulfonamides Line and Quinolones Line**, which are briefly used as "**Line C**", "**Line B**", "**Line T**", "**Line S**" and "**Line Q**". The test results will depend on the color of these lines. The following diagram describes the result determination.

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

NEGATIVE Compare the color of **Line B / Line T / Line S / Line Q** with Line C, if the color of **Line B / Line T / Line S / Line Q is deeper than** Line C, the result will be **negative**.

POSITIVE Compare the color of **Line B / Line T / Line S / Line Q** with Line C, if the color of **Line B / Line T / Line S / Line Q is lighter than or the same as** Line C, the result will be positive. If there is **no Line B / Line T / Line S / Line Q**, the result is also **positive**.

NOTICE **Line C is used as a quality indicator**, which will always appear regardless of the B/T/S/Q 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 14 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.

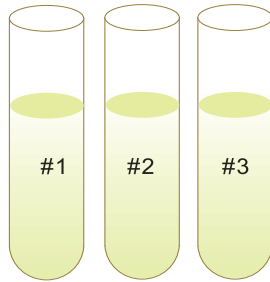
Please seal the bottle after taking out required strips.

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

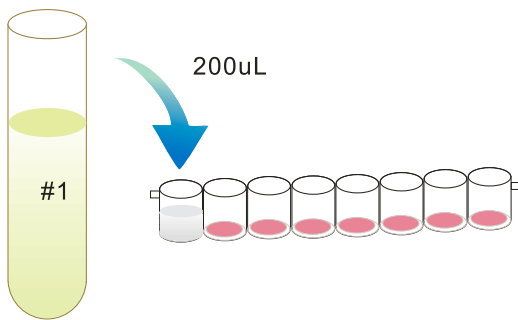
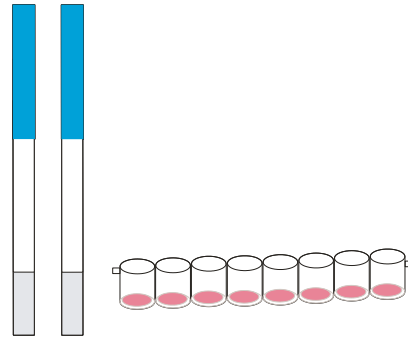
This kit is only for screening test, positive result should be further confirmed with other method.

Schematic Assay Steps

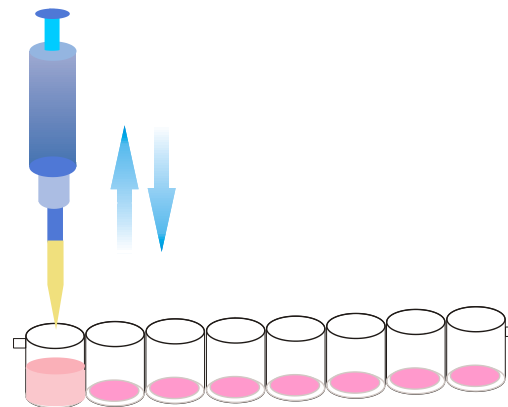
1. Bring all test samples to room temperature; number them to keep record.



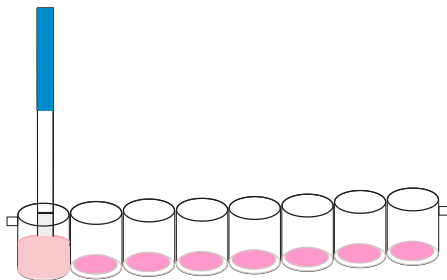
2. Take test kit according to your sample number and also number the kit wells to keep record and consistency.



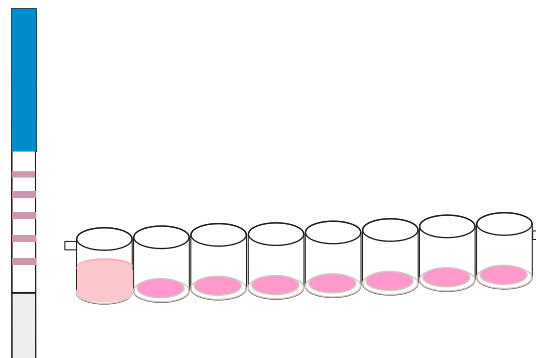
3. Take 200ul sample into the wells using pipet. You can also then put the well into the well holder to avoid sample spill.



4. Absorb up and down for 5 times to mix sample with reagent completely. Start the timer when the mixture is pink. **Incubate for 3min at room temperature.**



5. Insert the "Immersed" end of the strip into the mixture; **Incubate for 7min at room temperature.**



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: +86-18600362934