

This Beta-lactams Rapid Test Kit is a lateral flow immunoassay kit which utilizes the high affinity of β -Lactams capture protein against the antibiotics, which can easily identify these potential hazardous substances without any instrument. The detection limit of the kit can meet both European and USA MRLs.

1. Detection limit (LOD) in meat

Antibiotics	LOD (ppb)	Antibiotics	LOD (ppb)
Amoxicillin	30-50	Piperacillin	30-50
Ampicillin	30-50	Cephapirin	50-80
Penicillin G	4-6	Cefazolin	300-500
Procaine Benzylpenicillin	10-15	Cefoperazone	10-15
Cloxacillin	40-60	Cefacetrile	150-200
Oxacillin	40-60	Cefalonium	10-15
Cefquinome	100-150	Cefalotin	80-100
Nafcillin	150-200	Cefapime	60-80
Dicloxacillin	50-80		

2. Kit components

- Test Strip, 48 pcs in 6 plastic bottles, 8 pcs / bottle.
- Concentrated sample buffer (10 X), 10 ml * 2
- Kit insert
- NBReader Q3 (optional)

3. Instruments and reagent required but not provided

- Stomacher / homogenizer
- Vortex / Vortex mixer
- Centrifuge
- Centrifuge tube

4. Sample preparation

● Dilution of sample buffer

Restore the concentrated sample buffer (10 X) to room temperature and ensure that the precipitated crystals are completely dissolved before use.

Dilute the 10X concentrated buffer with deionized water in the volume ratio of 1:9, mix thoroughly. The diluted sample buffer can be stored at 2-8 °C for 1 month.

● Preparation of meat sample

Take 10g of sample, grind with a grinder/homogenizer, then weigh 2 ± 0.01 g into a centrifugal tube; Add 2ml of diluted sample buffer and shake firclly for 2 minutes; Centrifuge at 6000rpm for 10 minutes, take the supernate (upper layer) for assay.

5. Operations

- a) Read the instruction before experiment. Bring the test kit and samples to room temperature.
- b) Take bottles needed from the kit package, take out required wells and strips, and make proper marks. Please use the test strips within 1h. Seal the cap of the bottles and store the unneeded kit.
- c) Take 200ul of the prepared sample supernate 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 well.

- d) Incubate for **5min at room temperature (20-25°C)**, 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 **5min at room temperature** again. Take out the strip; determine the result according to **Part 6**.

6. Result determination

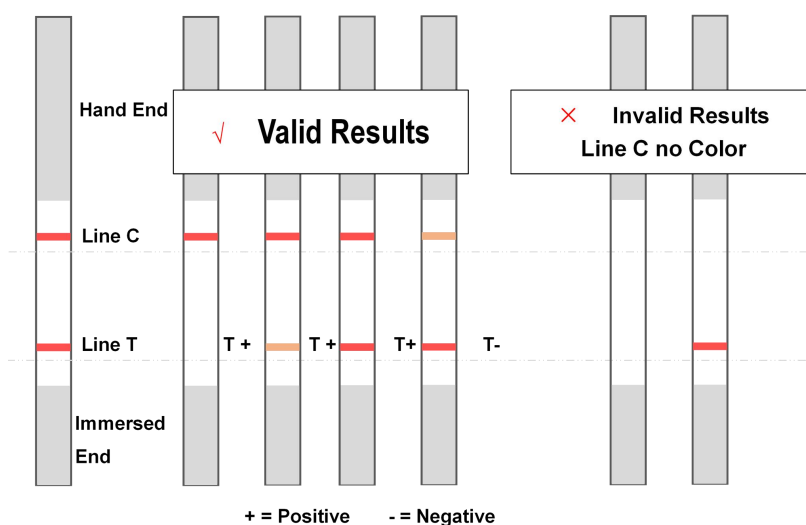
Positive (+) Line C is red, line T has no color, OR color of Line T is lighter than OR equal to Line C;

Negative (-) Line T and Line C are both red, and color of Line T is deeper than Line C.

Invalid (x) Line C has no color. In this case, please reread the instructions and repeat assay with new strip.

Notice: If the result of the strip needs to be recorded, please cut the "Immersed end", and dry the strip, then keep it as file or paste in your recording book.

You can also interpret the result with a NBReader Q3 if you have it.



7. Specificity

The results are negative when testing sulfonamides, chloramphenicol, aminoglycosides, quinolones at 500 µg/kg.

8. Storage

2-8°C in cool dark place, do not freeze. Valid for 12 months. Lot no. and expiry date are printed on the package.

9. Notice and precautions for a successful experiment.

- Perform the assay following the instruction; do not touch the membrane of the strip.
- 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.
- This product is also available for milk / honey testing. Please contact us for more details.

Ringbio Meat Test Kits

Product #	Product	Unit size
510001	Meat Beta Lactams Rapid Test Kit	48T/96T
510006	Meat Tetracyclines Rapid Test Kit	48T/96T
510008	Meat Sulfonamides Rapid Test Kit	48T/96T
510005	Meat Lincomycin Rapid Test Kit	48T/96T
510014	Meat Chloramphenicol Rapid Test Kit	48T/96T
510032	Meat Florfenicol Rapid Test Kit	48T/96T
510009	Meat Fluoroquinolones Rapid Test Kit	48T/96T
510023	Meat Macrolides Rapid Test Kit	48T/96T
510034	Meat Trimethoprim Rapid Test Kit	48T/96T
510035	Meat Olaquinox Rapid Test Kit	48T/96T

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