



Beta-lactams Rapid Test Kit

(Art. NO. STW021.L02.05)

【Product description】

This Kit (Art. NO. STW021.L02.05) is used for the qualitative determination of Beta-lactams in milk based on the colloidal gold immunochromatography technology. The test has been validated for raw milk, pasteurized milk and milk powder. The Beta-lactams rapid test strip is convenient, fast, sensitive, and can be used for on-site large-scale screening.

【Detection Limit】

Raw milk, pasteurized milk and milk powder:

β -lactams	Detection limits	β -lactams	Detection limits
Penicillin G	2 ppb (ng/mL)	Dicloxacillin	5-7 ppb (ng/mL)
Benzylpenicillin	2-4 ppb (ng/mL)	Cefalonium	3-5 ppb (ng/mL)
Ampicillin	2-4 ppb (ng/mL)	Cephapirin	13-15 ppb (ng/mL)
Amoxicillin	2-4ppb (ng/mL)	Cefoperazone	4-6 ppb (ng/mL)
Oxacillin	8-10 ppb (ng/mL)	Cefazolin	30-50 ppb (ng/mL)
Cloxacillin	6-8 ppb (ng/mL)		
Nafcillin	15-25 ppb (ng/mL)		

【Components provided】

1. Test strip, 96 pcs in 12 plastic bottles, 8 pcs / bottle.
2. 96 × purple powder micro-wells
3. Instruction manual

【Storage instructions】

1. Store the kit/ reagents at 2~8°C (35.6~46.4°F), and do not freeze the components of the test kit.
2. The test is valid for 12 months. No quality guarantee can be assumed after the expiration date on the kit label.

【Materials Required but not Provided】

1. Incubator heatbale to 50 °C (122 °F)
2. Graduated micropipette / tips 20-200 μ L.



【Test Procedure】

1. Raw milk/ pasteurized milk

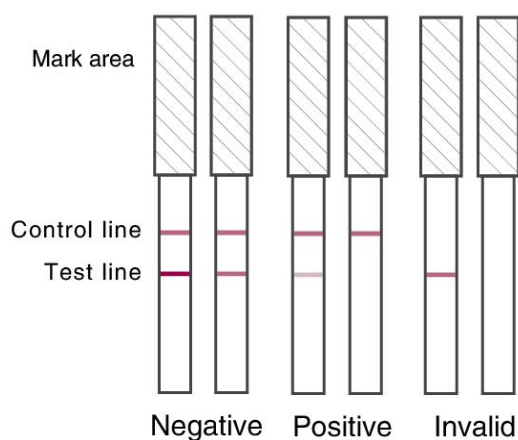
- 1.1 Please read the entire manual carefully before starting your experiment. Allow the test kit and samples to reach room temperature ($20\pm 5^{\circ}\text{C}/59\sim 77^{\circ}\text{F}$) before use. Milk sample should be fully liquid without any quality change, agglomeration or sediment.
- 1.2 Take out appropriate number of micro-wells and strips from the bottle and label them. Return unused micro-wells and strips to the bottle and reseal immediately.
- 1.3 Transfer 200 μL of the milk sample into the micro-well and mix the well carefully until the purple particles dissolve and change to pink color. Place the micro-well in incubator ($50^{\circ}\text{C}/122^{\circ}\text{F}$) for 3 min.
- 1.4 Add the strip into micro-well and make sure the sample pad is fully soaked in the milk, for 3 min.
- 1.5 Take out the strip and clean the sample pad (either cut off or use paper towel to erase it), then interpret the result based on C Line (Control Line) and T Line (Test Line). (See the Result interpretation)

2. Milk powder

- 2.1 Weigh 1 g milk powder into 10 mL centrifuge tube, and then add 8 mL deionized water and mix thoroughly.
- 2.2 Same **Test Procedure** as Raw milk/ pasteurized milk.

【Result interpretation】

1. Visual interpretation



Negative: T Line and C Line are both red, and color of T Line is deeper than C Line or the same with C Line.

Positive: C Line is red, T line does not show any color or the color is obviously lighter than C Line.

Invalid: Strip does not develop a C Line. The corresponding sample should be re-tested.

2. Interpretation with strip reader

Please refer to the manual of reader.



【Notes】

1. Do not use strips and micro-wells from different batches.
2. A strict incubation time must be ensured, especially when multiple samples was detected simultaneously.
3. Test should be finished within 1 hour.
4. This strip is for single use only.
5. Please do not use if the package is broken, or dirty or out of expiration date.
6. This kit is for screening test only, positive result should be further confirmed with other methods.
7. All wastes should be properly decontaminated prior to disposal. Disposal should be in accordance with local, regional, and national regulations.

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