

# Quick Operation Guide for Bovine Early Pregnancy Rapid Test Kit (Whole Blood Version)

## 1、 scope of application

animal species	Detectable time in early pregnancy (post-spermatation)	Postpartum test window (to avoid false positives)
dairy cattle	<b>28 days</b>	<b>No less than 85 days</b>
beef	<b>28 days</b>	<b>No less than 85 days</b>
buffalo	<b>30 days</b>	<b>No less than 85 days</b>

## 2、 Procedure steps (performed at room temperature throughout)

### (1) Pre-test preparation

First, carefully read this operating manual and product instructions to confirm that the kit is within its expiration date and the packaging is undamaged. Then, prepare the required consumables and samples to be tested, and select a clean, flat surface as the work area. If the samples are refrigerated or frozen, they must be thawed to room temperature before testing.

### (2) Sample preparation

Sample type	Collection and processing methods	short term storage requirement
Whole blood (EDTA anticoagulated)	Collect blood into a test tube containing EDTA. Immediately after sampling, gently invert the tube 10 times to mix thoroughly and prevent clotting.	Store at 2-8°C for no more than 24 hours; freezing or partial freezing is strictly prohibited.
serum / plasma	After blood collection, centrifuge at 2000-3000 rpm/min for 5-15 minutes, or allow to stand upright until serum separation, then collect the supernatant serum/plasma for later use.	Store at 2-8°C for no more than 7 days, and keep sealed to prevent contamination.

### (3) Test operation

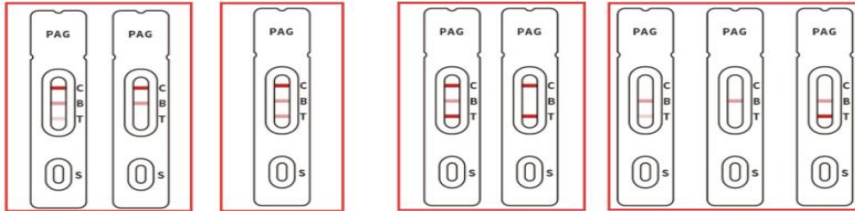
After tearing open the aluminum foil bag along the incision and removing the test strip, immediately place it on a flat surface to avoid prolonged exposure to air and moisture.

Add samples by sample type:

**Whole blood sample:** After aspiration with a disposable pipette, add 2 drops (approximately 60  $\mu$ L) to the "sample well" of the test card, wait for 5 seconds, then add 3 drops (approximately 90  $\mu$ L) of sample diluent to the "addition well".

**Serum/plasma sample:** Add 1 drop (approximately 30  $\mu\text{L}$ ) to the "sample well", wait for 5 seconds, then add 4 drops of sample diluent. After addition, allow the sample to stand for 10-20 minutes without moving the test strip. Once the bands stabilize, read the results in a well-lit area.

### 3、 interpretation of result



**Not pregnant, Indeterminate, Pregnant, Invalid result**

-Compare the color of the test line (T line) with the color of the chromaticity line (B line) according to the following instructions, and interpret the results based on the description provided:

- Result Description

- (1) Not pregnant: T-line color lighter than B-line, or T-line not visible.
- (2) Indeterminate: T line color is similar to or the same as B line color (recommended to retest after 7 days for confirmation).
- (3) Pregnancy: T line color is significantly darker than B line, or T line is clearly visible while B line is not clear.
- (4) Invalid test: If the quality control line (C line) cannot be observed, this test is invalid. Please use a new test strip for retesting.

### 4、 Detailed Operation Steps

graphic

Instructions for the procedure



1. Prepare the samples that have been restored to room temperature, test cards, diluents, as well as timers and droppers required for the detection.  
**Note: Reagent kits and samples stored at temperature should be restored to room temperature (approximately 30 minutes) before opening. The packaging integrity must be checked prior to use; damaged or expired reagents are prohibited. Testing must be conducted in a room temperature environment of 18-28°C.**



2. Tear open along the incision of the aluminum foil bag and remove the test strip.  
**Note: After opening the aluminum foil bag, the reagent card should be used within 1 hour.**



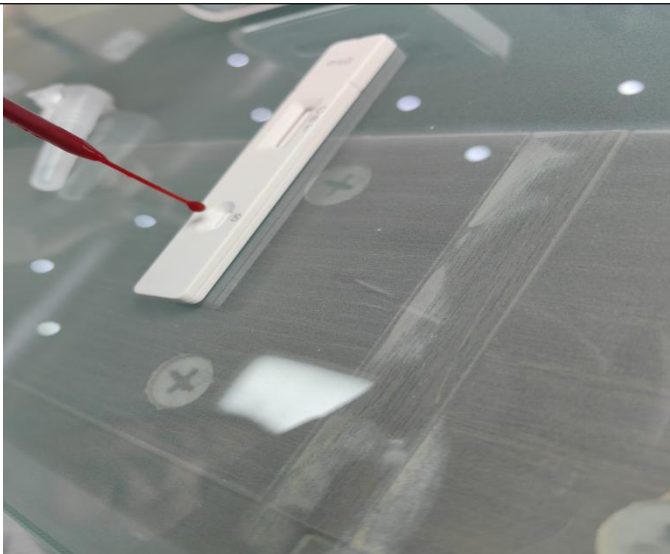
3. Place the test card on a flat desktop.



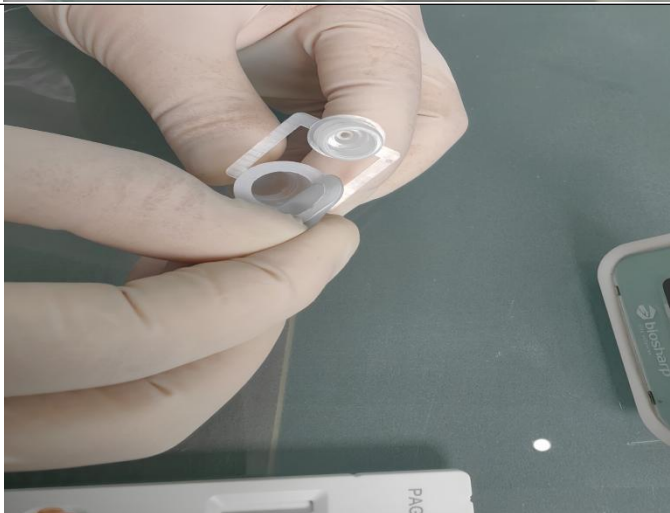
4. Shake the sample vertically for more than 5 times to ensure uniform distribution of the blood sample.

**graphic****Instructions for the procedure**

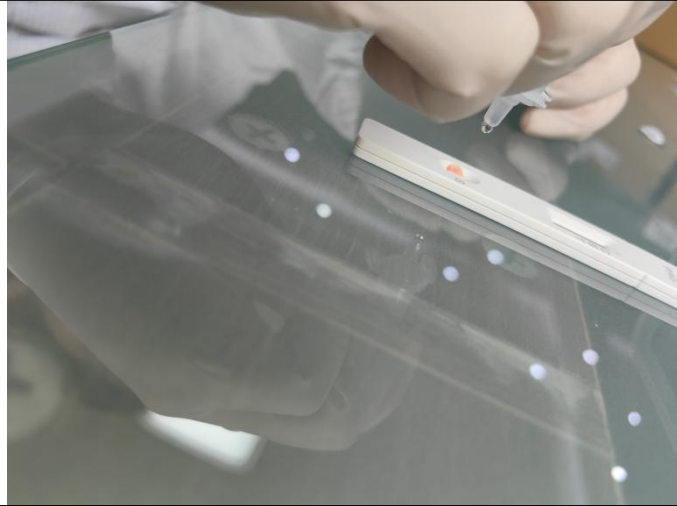
5. Use a disposable dropper to aspirate whole blood, serum, or plasma.



6. Add 2 drops (approximately 60  $\mu\text{L}$ ) of whole blood or 1 drop (approximately 30  $\mu\text{L}$ ) of serum/plasma to the sample well of the test card.  
Note: Slowly squeeze the dropper to allow the blood sample to drip naturally.



7. Tear open the aluminum foil bag of the extraction tube. Prepare to add the diluent dropwise.

**graphic****Instructions for the procedure**

8. Whole blood sample: Wait for 5 seconds, then add 3 drops (approximately 90  $\mu$ L) of sample diluent to the sample well of the test card.

Serum sample: Wait for 5 seconds, then add 4 drops (approximately 120  $\mu$ L) of sample diluent to the sample well of the test card.

Note: Slowly squeeze the extraction tube to allow the dilution solution to drip naturally.



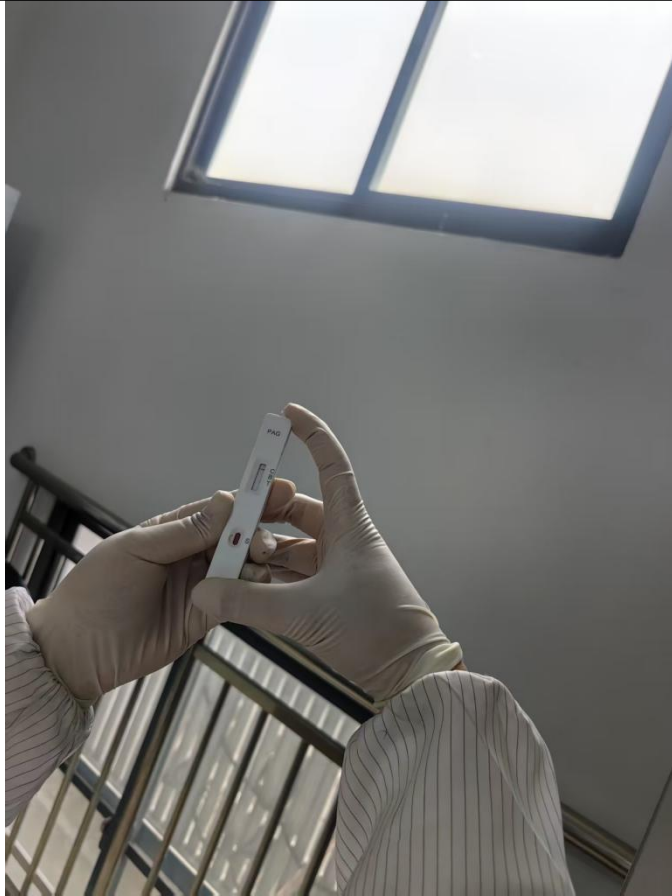
9. Start the timer.



10. Wait for 10-20 minutes before reading the results.  
Note: We recommend reading the results within 15 minutes. Results beyond 20 minutes are not meaningful.

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Instructions for the procedure



11. Interpretation should be performed in a well-lit environment.



Example of result interpretation (actual photo): Positive

graphic



Instructions for the procedure



Result interpretation example (actual photo): Negative

graphic

Instructions for the procedure



**Example of result interpretation (actual photo):**  
**Indeterminate**