

# Bovine Pregnancy Diagnosis Solution

Early pregnancy detection in bovine is an important part of the production process in the pasture. Using an accurate, fast, and easy pregnancy diagnosis method is the key to improve breeding efficiency and milk yield. Anieasy Bovine Pregnancy Test Kit is a blood pregnancy test for dairy cows based on double antibody sandwich technology. It can be used to detect pregnancy-associated glycoprotein in serum or plasma (EDTA or heparin sodium) samples of cows after 28 days post-breeding.



**Benefit of 28 days pregnancy testing**

- 01 Shorten the calving interval and improve calving rates.
- 02 Reduce cow stress response and cow handling
- 03 Increase milk production, save feed cost and improve economic benefit.

## Why Anieasy rapid test kit?

- 01 **Early Diagnosis**  
The test can be performed as early as 28 day post-breeding.
- 02 **Simplified Procedures**  
No special device is needed and the results can be read visually; Easy to use without training.
- 03 **Quick and Reliable Results**  
Get test results as less as 15 mins.
- 04 **Safe for Embryos**  
Safer than rectal palpation and causing less stress response than ultrasound device.
- 05 **Wide range of application site**  
On-site test and laboratories use achievable; Applicable for small, medium and large scale farm.
- 06 **High accuracy and cost-effective**  
High conformity with Ultrasound method with lower cost.

## Product Information

| Art.No.Art.No. | Product name   | Spec.              | Application           | Sample type                | Test time | Shelf Life | Storage |
|----------------|--|--------------------|-----------------------|----------------------------|-----------|------------|---------|
| AE1PR001       | Bovine Pregnancy Rapid Test Kit (Colloidal gold)     | 25T/kit            | 28 days post-breeding | Serum, plasma              | 20 mins   | 18 months  | 4-30°C  |
| AE1PR002       | Bovine Pregnancy Rapid Test Kit (Fluorescence)       | 25T/kit            | 28 days post-breeding | Serum, plasma              | 15 mins   | 18 months  | 4-30°C  |
| AE1PR003       | Bovine Pregnancy Rapid Test Kit (Latex Microspheres) | 25T/kit            | 28 days post-breeding | Whole blood, serum, plasma | 20 mins   | 18 months  | 2-30°C  |
| AE2PR001       | Bovine Pregnancy ELISA Test Kit                      | 192T/kit, 480T/kit | 28 days post-breeding | Serum                      | 105 mins  | 12 months  | 2-8°C   |

Art. No.: AE1PR001

# Bovine Pregnancy Rapid Test Kit

This product is based on double-antibody sandwich method and colloidal gold immunochromatography technology

## Independent study

| Serum / Plasma                     |          | IDEXX Alertys-Nonvisual |        |        |
|------------------------------------|----------|-------------------------|--------|--------|
|                                    |          | Pregnant                | Open   | Total  |
| Bovine Pregnancy<br>Rapid Test Kit | Pregnant | 1087                    | 12     | 1099   |
|                                    | Open     | 11                      | 610    | 621    |
|                                    | Total    | 1098                    | 622    | 1720   |
| Coincidence rate                   |          | 99.00%                  | 98.07% | 98.66% |

Sensitivity: 99.00% Specificity: 98.07% Total coincidence rate: 98.66%  
(Compared with IDEXX Alertys-Nonvisual Test Kit)

### Rapid and Visual

Result in 20 mins through visual Interpretation

### Easy to use

One-step test

### Application

On-site test and small-scale farms

## How to use?

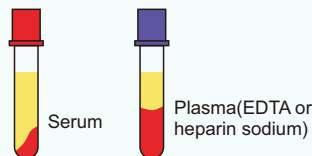
### 01 Sample collection

From 28 days post-breeding, taking 2-3ml blood from the tail root of bovine



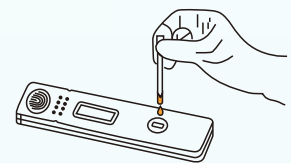
### 02 Sample preparation

Let the whole blood stand overnight at 4°C or centrifuge at 4000-5000rpm for 30-60 seconds to get the serum or plasma(EDTA or heparin sodium).



### 03 Testing

Add 90µL (3 drops) of serum or plasma into the sample well.

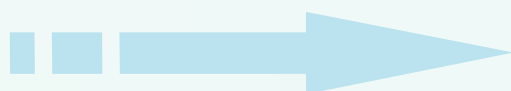


## Result interpretation

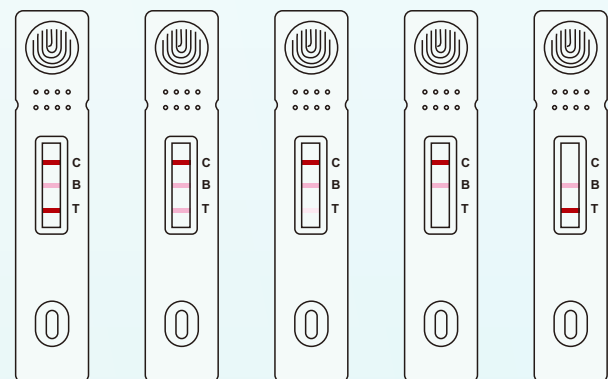
### Quick Test: for multiple samples



Incubate at room temperature for 20 mins.



Note: Please interpret the result within 10 mins after the incubation.



Pregnant

Suspicious

Open

Open

Invalid

Art. No.: AE1PR002

# Bovine Pregnancy Rapid Test Kit (Fluorescence)

This product is based on double-antibody sandwich method and fluorescence immunochromatography technology.

## Independent study

| Serum / Plasma                                 |          | IDEXX Alertys-Nonvisual |        |        |
|--|----------|-------------------------|--------|--------|
|  |          | Pregnant                | Open   | Total  |
| Bovine Pregnancy Rapid Test Kit (Fluorescence) | Pregnant | 2105                    | 10     | 2115   |
|  | Open     | 28                      | 1327   | 1355   |
|  | Total    | 2133                    | 1337   | 3470   |
| Coincidence rate                               |          | 98.69%                  | 99.25% | 98.90% |

Sensitivity: 98.69% Specificity: 99.25% Total coincidence rate: 98.90%  
(Compared with IDEXX Alertys-Nonvisual Test Kit)

### Rapid

Result in 15 mins

### Easy to use

One-step test

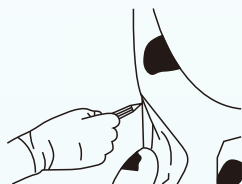
### Application

On-site test and small-scale farms

## How to use?

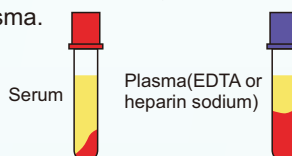
### 01 Sample collection

From 28 days post-breeding, taking 2-3ml blood from the tail root of bovine.



### 02 Sample preparation

Let the whole blood stand overnight at 4°C or centrifuge at 4000-5000rpm for 30-60 seconds to get the serum or plasma.



### 03 Testing

Add 100µL of serum or plasma to the sample well.



## Result interpretation

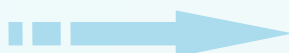
### Quick Test: for multiple samples

Incubate at room temperature (18-35°C) for 15 mins.



Note: Please interpret the result within 5 minutes after incubation.

Insert the test card into AE1-IF01 Analyzer with the sample well inward.

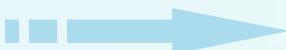


Choose "Quick Test" and click "Start Test".



### Standard Test: for single sample

Insert the test card into the AE1-IF01 Analyzer with the sample well inward.



Note: "Read ID chip" is required for each new batch products.

Choose "Standard Test" and click "Start Test". The Analyzer will automatically read the result after 15 mins.



Art. No.: AE1PR003

# Bovine Pregnancy Rapid Test Kit

This product is based on double-antibody sandwich method with red latex microspheres as indicators

## Independent study

| Serum / Plasma / Whole Blood    |          | IDEXX Alertys-Nonvisual |        |        |
|---------------------------------|----------|-------------------------|--------|--------|
|                                 |          | Pregnant                | Open   | Total  |
| Bovine Pregnancy Rapid Test Kit | Pregnant | 448                     | 5      | 453    |
|                                 | Open     | 11                      | 313    | 324    |
| Total                           |          | 459                     | 318    | 777    |
| Coincidence rate                |          | 97.6%                   | 98.43% | 97.94% |

Sensitivity: 97.6% Specificity: 98.43% Total Coincidence rate: 97.94%  
(Compared with IDEXX Alertys-Nonvisual Test Kit)

### Rapid and Visual

Result in 20 mins through visual Interpretation

### Easy to use

One-step test

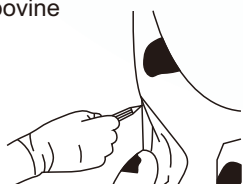
### Application

On-site test and small-scale farms

## How to use?

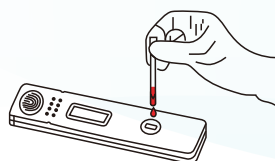
### 01 Sample collection

From 28 days post-breeding, taking 2-3ml blood from the tail root of bovine



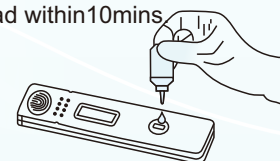
### 02 Sample preparation

Add 3 drops of whole blood into the sample well(or pipette 120uL whole blood into the sample well)



### 03 Adding diluent

Add 2 drops of diluent into the sample well, then wait for 20 mins to read results. The results must be read within 10mins.

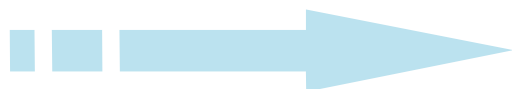


## Result interpretation

### Quick Test: for multiple samples



Incubate at room(18-35°C) temperature for 20 mins.



Note: Please interpret the result within 10 mins after the incubation.



Pregnant



Suspicious



Open



Open



Invalid

# Bovine Pregnancy ELISA Test Kit

This product is based on double-antibody sandwich ELISA technology.

## Independent study

| Serum                           |          | IDEXX Alertys-Nonvisual |        |        |
|---------------------------------|----------|-------------------------|--------|--------|
|                                 |          | Pregnant                | Open   | Total  |
| Bovine Pregnancy ELISA Test Kit | Pregnant | 463                     | 5      | 468    |
|                                 | Open     | 3                       | 511    | 514    |
| Total                           |          | 466                     | 516    | 982    |
| Coincidence rate                |          | 99.36%                  | 99.03% | 99.19% |

Sensitivity: 99.36% Specificity: 99.03% Total coincidence rate: 99.19%  
(Compared with IDEXX Alertys-Nonvisual Test Kit)

### Accurate

High sensitivity, good specificity, objective results

### Efficient

Multiple samples are tested in one experiment

### Application

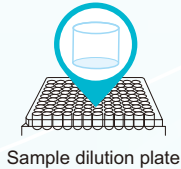
Large-scale farms and those with high accuracy requirements

## How to use?

### 01 Sample collection

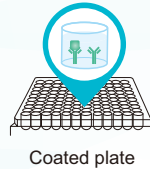
Add 30µL/well sample diluent into the sample dilution plate.

Then add 120µL/well positive control, negative control, or serum sample.

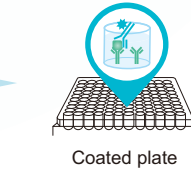


### 02 Sample addition

Transfer 125µL/well mixed solution to the coated plate.



Incubate 60 mins at 37°C  
Wash 4-5 times



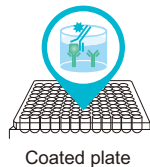
### 03 Enzyme reaction

Add 100µL/well enzyme conjugate.

### 04 Color reaction

Add 100µL/well mixed solution of substrate A and B.

Incubate 30 mins at 37°C  
Wash 4-5 times



Incubate 15 mins at 37°C

### 05 Read and analyze

Add 50µL/well stop solution and read the OD value at 450nm.



## Result interpretation

### Validity criteria

Positive control: OD(P) >0.5

Negative control: OD(N) ≤0.25

### Results

| S/P=OD(S) / OD(P) | Results                          |
|-------------------|----------------------------------|
| S/P ≥ 0.5         | Pregnant                         |
| S/P < 0.3         | Open                             |
| 0.3 ≤ S/P < 0.5   | Suspect (retest after 7-10 days) |

