

## ● Test Principle

This kit is designed to detect canine Progesterone (cProg) concentrations in serum or plasma by rapid fluorescence immunochromatography assay. Add sample into the diluent buffer and mix thoroughly, then add the well mixed solution into the sample hole on the test plate. cProg in sample and progesterone antigen coated on the test line competitively react with the fluorescence labeled cProg specific monoclonal antibody on the conjugate pad. The intensity of fluorescence signals is quantitatively measured by quantitative Fluorescent Immunoassay Analyzer and reflects the cProg concentration in the sample.

## ● Kit Composition

- 1、 cProg Rapid Test Card
- 2、 Diluent buffer
- 3、 ID chip
- 4、 Instructions for operation

## ● Other Suppliers required

Fluorescent Immunoassay Analyzer

## ● Preparation and Storage of Samples

- 1、 Sample types are serum or plasma. Blood samples collected from the animals are centrifuged at 3000-4000rpm or 2000-3000g for 10min for the purpose of separating blood serum or plasma.
- 2、 If the samples cannot be tested immediately, the samples could be stored at 2-8°C for 2 days. If long-term storage is required, the samples could be stored at -20°C or below for up to 1 month.

## ● Test Procedures

- 1、 Allow the test kit to reach to room temperature before use.
- 2、 Turn on the Fluorescent Immunoassay Analyzer.
- 3、 Check and make sure the ID chip is consistent with the batch number of the test kit.
- 4、 Insert the ID chip into the card socket of the Instrument. The Instrument will automatically read the product name and batch number of test kit.
- 5、 Add **50µL** serum or plasma into the diluent buffer and mix thoroughly.
- 6、 Add **100µL** of the above mixed solution into the sample hole on the test plate.
- 7、 Place the test plate at room temperature for **10min** for reaction and then insert the test plate into the instrument, click “rapid test” to read the result; or insert the test plate into the instrument immediately after adding the mixed sample and click “standard test” to wait for the test result.
- 8、 Read and print the test result.

## ● Interpretation of Test Result

- 1、 Progesterone remains below 2ng/mL before estrus onset. From initiation of estrus, progesterone increases gradually and reaches to 5ng/mL when ovulations begins. When progesterone reaches to 15-40ng/mL, it is the optimal time for mating or artificial insemination.
- 2、 To increase the successful mating rate, progesterone levels must be tested daily. When progesterone increases to 15ng/mL, the time is suitable for first mating and the second mating is recommended after 48h. If the tested progesterone is 15-30ng/mL, the first mating should be made after 2-3 h and the second mating after 48h. If the tested progesterone is 30-50ng/mL, the first mating should be made after 2-3 h and the second mating after 24h. If the tested progesterone is >70ng/mL, it suggests that the bitch has entered the diestrus.
- 3、 Mating timing should be determined using a combination of serial vaginal cytologic exams and progesterone concentrations. When 70-90% of the epithelial cells are cornified and progesterone reaches to 15-40ng/mL, it is the optimal time for mating or artificial insemination.  
Note: It is recommended that each laboratory should establish its own reference ranges.
- 4、 The rise of progesterone levels is related to breed, size and age of the bitches. The progesterone increases rapidly in young bitches and more slowly in older bitches.
- 5、 The detection range of this test kit is 0.5ng/mL- 80ng/mL, values beyond the detection range is expressed as <0.5ng/mL or >80.0ng/mL.

## ● Storage and Stability

The original package should be stored at 4-30°C and should not be frozen. Keep the kits away from light. The test kit is stable during the period of expiration date.

## ● Precautions

- 1、 This kit is for veterinary diagnostic use only.
- 2、 Before use, the test kit must be recovered to room temperature.
- 3、 Ensure the assay procedure is strictly performed following the instructions.
- 4、 Do not touch the white membrane surface on the center of the test strip.
- 5、 All clinical specimens should be handled and disposed as potentially infectious materials.
- 6、 Never use the kit beyond the expiration date.
- 7、 Do not use the test plate when sealed packing bag is damaged.
- 8、 Do not mix and use reagents from different batch numbers.

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