

## **CDIA™ Test kit for Y. pestis antibody**

---

*Cat. No.: DTSYP01*

*Pkg. Size: 10T*

### **Intended Use**

This kit is a chromatographic immunoassay for the qualitative detection of plague antibody in plasma, or serum. It is intended to be used as a screening test and as an aid in the diagnosis of infection with Yersinia pestis.

### **General Description**

Plague bacteria Yersinia pestis (Y. pestis) is that people already known potent pathogenic microorganisms, with easy access, virulent, mortality rate, more resistant to the natural environment characteristics, different gender and people of all ages are susceptible, they have been recognized as a classic of biological warfare agents.

### **Principle of the Test**

CDIA™ Test kit for Y. pestis antibody has Test Line and Control Line on the surface of the kit. Y. pestis F1 antigens are immobilized on the test region of the membrane. During testing, the specimen reacts with Y. pestis F1 antigens conjugated to colloidal gold particles and pre-coated onto the conjugate pad of the test. The mixture then migrates through the membrane by capillary action, and interacts with reagents on the membrane. If there are sufficient antibodies to Y. pestis in the specimen, a colored band will form at the test region of the membrane. The presence of this colored band indicates a positive result, while its absence indicates a negative result. The appearance of a colored band at the control region serves as a procedural control, indicating that the proper volume of specimen has been added and membrane wicking has occurred.

### **Reagents and Materials Provided**

1. Cassette, 10T
2. Kit insert

### **Sample Preparation**

Serum and plasma samples were collected from the venous blood by conventional method. Add 400 µl physiological saline (solution) in 10 µl Serum and plasma samples (1:40 dilution).

## Test Procedure

1. Remove the test kit from the foil pouch, and place it on the flat, dry surface.
2. Put 3-4 drops of serum or plasma samples into the sample well.
3. Observe the result in 15 minutes after the serum or plasma samples added. The observation is invalid after 15 minutes.

## Result Interpretation

**Negative:** The presence of only one red color band in the Control line (C) indicates a negative result.

**Positive:** The presence of two color bands ("T" and "C"), no matter which band appears first, means positive

**Invalid:** If the purple color band is not visible within the result window after performing the test, the result is considered invalid. The directions may not have been followed correctly or the test may have deteriorated. It is recommended to take the test again with same specimen.

## Storage

Store as packaged in the sealed pouch at 4-25°C for 24 months. DO NOT FREEZE.

## Note

1. For in-vitro diagnostic use only. Only indicate the antibody presence against Plague in the specimen.
2. As with all diagnostic tests, all results must be interpreted together with other clinical information available to the veterinarian.
3. If the test result is negative and clinical symptom is persisting, additional testing using other clinical methods is recommended. A negative result does not preclude the possibility of Plague.
4. Do not eat or smoke while handling specimens.
5. Wear protective gloves while handling specimens. Wash hands thoroughly afterwards.
6. Avoid splashing or aerosol formation.
7. Clean up spills thoroughly using an appropriate disinfectant.
8. Decontaminate and dispose all specimens, reaction kits and potentially contaminated materials, in a biohazard container.
9. Do not use the test kit if the pouch is damaged or the seal is broken.

---

**Creative Diagnostics. All rights reserved**

45-1 Ramsey Road Shirley, NY 11967, USA

Tel: 631-624-4882 Fax: 1-631-938-8221

E-mail: [info@creative-diagnostics.com](mailto:info@creative-diagnostics.com)

[www.cd-diatest.com](http://www.cd-diatest.com)