

## **1- Rose Bengal Test**

### **Rose Bengal Test (RBT) for Brucella:**

The Rose Bengal test (RBT) is often used as a screening test in human brucellosis.

### **Brucellosis:**

This disease caused by three species of Brucella:

1. ***Brucella Abortus*** (in Cows).
2. ***Brucella Mellitensis*** (in sheeps).
3. ***Brucella Suis*** (in pigs).

Human get infected by ingestion of raw milk and animal dendrites.

The Rose Bengal test (RBT) is a simple, rapid slide-type agglutination assay performed with a stained *B. abortus* suspension at pH 3.6 – 3.7 and plain serum.

### **Principal of the test:**

This test depends of the testing of Antibodies in the serum by their reaction with the pre-prepared Brucella Antigen in the tests which is stained by pink coloured stain (Rose-Bengal stain).

# Practical Immunology Dr. Rasha Majid Abd-ulameer

## Materials Required

- 1.Rose Bengal Dye stained antigen
- 2.Micropipette
- 3.Microscopic slides
- 4.Applicator sticks.
- 5.Gloves



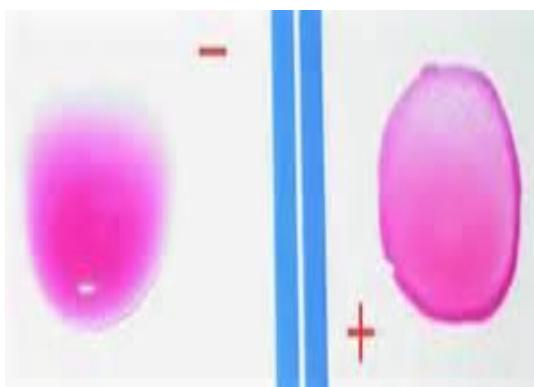
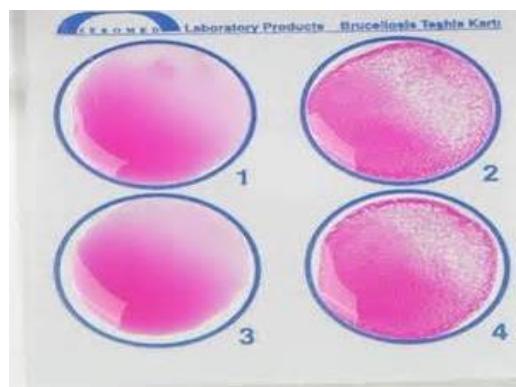
## Result of the test:

Presence of Agglutination → Positive  
No Agglutination → Negative **Figure (5)**

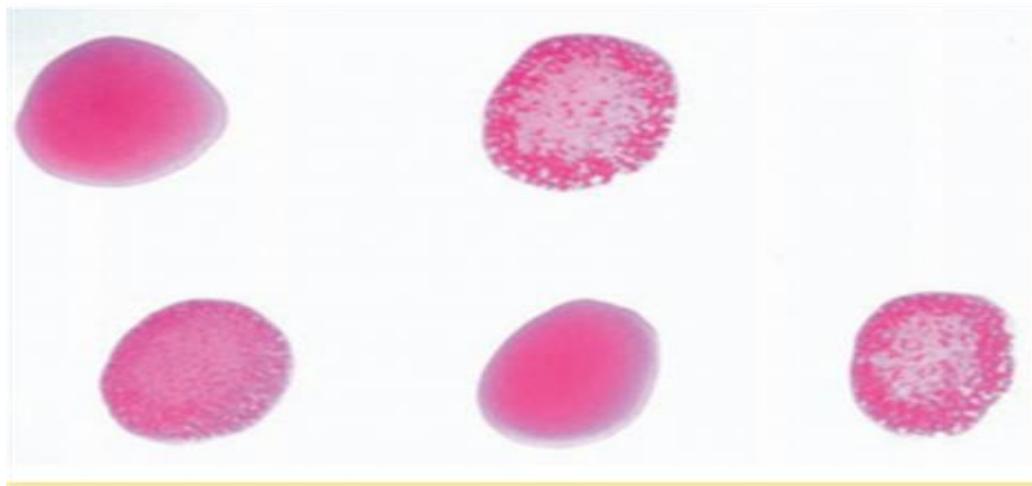
# Practical Immunology Dr. Rasha Majid Abd-ulameer

## **Procedure of Rose Bengal Test:**

1. Test Serum (0.03 ml) is mixed with an equal volume of antigen on a white plate to produce a zone approximately 2 cm in diameter.
2. The mixture is agitated gently for four minutes, and then observed for agglutination.
3. Any visible reaction is considered to be positive.



**Practical Immunology Dr. Rasha Majid Abd-ulameer**



**Figure (5) Rose Bengal plate test**