Determination of antibodies associated with Salmonella or Brucella infections by coloured bacterial suspension in microplate

**FEVER MICRO TEST**

**FEVER KIT MINOR 6x10 ml**

**TEST SUMMARY**

The Antibodies associated with Salmonella or Brucella infections cause agglutination of inactive bacteria present in suspension. The intravitral colouring permits an easier reading of agglutination formation.

**SAMPLES**

Fresh clear serum. Stability 7 days at 2-8°C. Freeze for longer period at ~20°C, and keep at room temperature before the analysis. Do not freeze repeatedly. Turbid samples have to be centrifuged.

**REAGENTS**

**Suspension:** Coloured intravital inactive bacterial suspension: conservative and stabilizer.

**Positive Control**

- Salmonella: Solution of rabbit antiserum that gives a clear agglutination with Salmonella Suspension: conservative and stabilizer.
- Brucella: Solution of rabbit antiserum that gives a clear agglutination with Brucella Suspension: conservative and stabilizer.

**Negative control:** Proteic bovine solution that doesn't react with suspension; conservative and stabilizer.

**REAGENTS PREPARATION**

The bacterial suspension must be resuspended with much care, shaking many times by inversion. The Positive Control be diluted 1:10 with physiologic solution (100 µl + 900 µl).

- Stability: the components of this kit will remain stable until the expiration date stated on the label stored at 2-8°C.
- Do not freeze.

**MATERIAL REQUIRED BUT NOT SUPPLIED**


**PRECAUTIONS**

Reagent may contain not reactive and conservative components. It is opportune to avoid contacts with the skin and do not swallow.

**SAMPLES PREPARATION**

The serum must be diluted 1:10 with physiologic solution (100 µl of serum with 900 µl of physiologic solution).

**PROCEDURE**

In a microplate with “U” wells dilute the serum with physiologic solution as indicated in the following table. Using the same pipette (inspiring and discharging many times) mix carefully content of the second well and transfer 100 µl in the following well etc.

Discharge 100 µl from last well (well n° 9).

1. Shake the plate by slow rotations for 20-30 sec.
2. Incubate at 37°C for 15-16 h or at 20°C for 2 days, to improve bottom formation. It is advisable put the plate in the fridge after the incubation for 2 hours.

**RESULTS INTERPRETATION**

A coloured bottom with a clear point shape, on the well bottom, indicates negativity.

An agglutinate that covers all the well bottom indicates a clear positivity, while, a no uniform agglutinate with a bottom in the centre, on the well bottom, indicate a feeble positivity.

The serum titre is given by a high dilution in which there is a feeble positivity.

**DIAGNOSTIC VALUES**

Somatic (O) and Brucella antigens.

- Flagellar Antigens (H).

Titters greater 1/80 indicates recent infection.

For infection diagnosis is distinctive the significant increasing of the titre among examined samples from days distance.

**NOTE**

- The flagellar agglutination is characterized by rapid training and easy disintegration.
- If the results are incompatible with clinical presentation, they have to be evaluated within a total clinical study.

**CALIBRATION/QUALITY CONTROL**

Positive and Negative control sera should be always used to distinguish an eventual background’s agglutination of reactive.

**TEST PERFORMANCE**

**Sensitivity**

- In presence of high antibodies titres, phenomenon of prozone can happen, therefore positivity is absent for low dilutions also being present for higher dilutions.

**Specificity**

A comparison with an available commercial method gave following results on 50 samples compared, giving a specificity = 100%.

**WASTE DISPOSAL**

Product is intended for professional laboratories. Waste products must be handled as per relevant security cards and local regulations.

**REFERENCES**


**SYMBOLS**

- IVD: Per esclusivo uso diagnostico in vitro
- LOT: Lotto di fabbricazione
- REF: Codice di catalogo
- I: Intervallo di temperatura per la conservazione
- D: Data di scadenza (anno – mese)
- C: Consulente i documenti allegati
- : Consultare le istruzioni operative
- CE: Rischio Biologico