Determination of antibodies associated with Rickettsie infections by coloured bacterial suspension in test-tube

TEST SUMMARY
The Antibodies associated with Rickettsie infections cause agglutination of inactive bacteria present in suspension. The intravitral colouring permits an easier reading of agglutination formation.

SAMPLES
Serum.
Stability 6 days at 4°C.

REAGENTS
Suspension: Coloured intravitral inactive bacterial suspension; conservative and stabilizer.

REAGENTS PREPARATION
Reagents are ready for the use.
The bacterial suspension must be resuspended with much care, shaking many times by inversion.
Stability: the components of this kit will remain stable until the expiration date stated on the label, when 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.

PROCEDURE
In a 8 tubes serie (12 x 100 mm) dilute the serum in the first 7 with physiologic solution as indicated in the following tube etc. Discharge 500 µl from last test-tube (tube n°7).

RESULTS INTERPRETATION
Being given the intravitral colouring of suspension, it’s possible to effect a preliminary reading without shake the tubes:
A coloured bottom with a clear point shape, on the tube bottom, indicates negativity.
A agglutinate that cover all the tube bottom indicates a clear positivity, while, a no uniform agglutinate with a bottom in the centre, on the tube bottom, indicate a feeble positivity.
The serum titre is given by a feeble positivity in which there is a feeble positivity.

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%.

DIAGNOSTIC VALUES
Titres until 1:40 are considered negative; from 1:80 to 1:160 are suspect, and from 1:320 are positive.
It is a distinctive sign for the infection diagnosis the significant increase of titre between examined samples after some days.

CALIBRATION/QUALITY CONTROL
It's advisable the execution of a quality internal control. In order to do this, are available by request the following control sera.

BS00011 3 x 0,5 ml
Positive Control Salmonella, Brucella, Proteus

SYMBOLS
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Warning, read enclosed documents
Read the directions

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

REFERENCES
Rose N.R., Friedman H. – Manual of clinical Immunology – American Society for Microbiology, II ed.

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