

MULTIPLES PROTEUS MACRO

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 intravital colouring permits an easier reading of agglutination formation.

SAMPLES

Serum.

Stability 6 days at 4°C.

REAGENTS

Suspension:

Coloured inactive intravital 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

Physiologic solution. Automatic micropipette. Normal laboratory equipment.

PRECAUTIONS

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

Perform the test according to the general "Good Laboratory Practice" (GLP) guidelines.

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 table. Using the same pipette (inspiring and discharging many times) mix carefully content of the second tube and transfer 500 μl in the following tube etc. Discharge 500 μl from last tube (tube n°7).

Test-tubes	1	2	3		7	Susp. Contr.
Physiologic	900 µl	500 μl	500 μl		500 μl	500 μl
Sample	100 μΙ	500 μl from 1	500 μl from 2		500 μl from 6	
Discharge 500 μl from last test-tube						
Bacterial suspension	500 μl	500 μl	500 μl		500 μl	500 μl
Titre	1:20	1:40	1:80		1:1280	
Shake tubes by a sweet movement. Incube at 37°C for 16-18 h or at 22°C for 2 days.						

RESULTS INTERPRETATION

Being given the intravital 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.

An 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 high dilution in which there is a feeble positivity.

Proceed then with a light shaking of tubes:

Shake before the 8^{th} tube (suspension control) to can characterize the suspension, then shake tubes that contain the sample and value the precipitate's behaviour as regards that of suspension's control.

The negativity is given by absence of agglutinates (the same behaviour as regards that suspension's control), positivity shows, on the contrary, the presence of agglutinates always as bigger as the positivity is greater.

The agglutination of somatic component has an uncouther appearance and persists also after the shaking, while the ciliary component has a flaky appearance and tends to dissolve by shaking.

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

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 examinated samples after some days.

NOTES

If the results are incompatible with clinical presentation, they have to be evaluated within a total clinical study.

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.

3 x 0,5 ml

Positive Control Salmonella, Brucella, Proteus

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%:

		PROTEUS OX2 LTA srl		
		+	-	TOT.
COMPE- TITORS	+	14	0	14
	-	0	36	36
_	тот.	14	36	50

		PROTEUS OX19 LTA srl			
		+	-	TOT.	
COMPE- TITORS	+	11	0	11	
	-	0	39	39	
_	тот.	11	39	50	

		PROTEUS OXK LTA srl			
COMPE- TITORS		+	•	TOT.	
	+	12	0	12	
	-	0	38	38	
	тот.	12	38	50	

WASTE DISPOSAL

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

PACKAGING

CODE MA01250 Proteus OX2

1 x 20 ml Proteus OX19 1 x 20 ml Proteus OXK 1 x 20 ml

REFERENCES

Widal F. - Bull. Men. Soc. Med. Hop de Paris - 6; 26 (1986).

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

MANUFACTURER

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SYMBOLS

IVD Only for IVD use

LOT

Lot of manufacturing Code number

REF ľ

Storage temperature interval

Expiration date

Warning, read enclosed documents

Read the directions

Biological risk

Mod. 01.06 (ver. 2.2 - 29/10/2007)

