FUTURA SYSTEM GROUP s.r.1.

IVD AND MEDICAL DEVICES

Via degli Olmetti, 18 Zona Industriale - 00060- FORMELLO (RM) TEL. 06/9075726 - 06/90400314 Fax.06/9075724

E - mail: info@futurasystem.it - Web site: www.futurasystem.it

ΤΡΗΔ

QUALITATIVE AND SEMIQUANTITATIVE DETERMINATION OF **ANTIBODIES ANTI - TREPONEMA PALLIDUM**

> CE IVD

> > Well 2

25 µl

25 µl

from well

Well 3

25 µl

25 µl

from well 2

75 µl

Well 1

40 µl

10 µl

-

Place the plate on a flat surface, away from vibrations and direct sunlight, and let

Shake the plate gently to ensure that the contents are perfectly mixed.

Negative: Presence of a definite button of non - agglutinated cells

stand for 60 minutes before reading the results

Discard 25 μl from the well 3

Qualitative Procedure Reagents Diluent

Sample

Results

Note:

Erythrocytes

RE	F. N°	HRPR02

Packaging

100 Tests

Reaction principle

TPHA is an indirect haemoagglutination test for the detection of specific antibodies to Treponema Pallidum. The test use chicken erythrocites coated with components of Treponema Pallidum

in the presence of Antibodies anti - Treponema Pallidum the sensitized erytrocites will addlutinate

Reagents composition, Contents and Safety warnings

1. Ervtrocites 1x8 ml Tannate Chicken erythrocytes coated with Treponema Pallidum Antigen cultivated in rabbit testicles - Sodium Azide 0.095%

2. Control Ervtrocites 1x5ml

Chicken erythrocytes no treated Sodium Azide 0.095%

3. Diluent 1x25 ml Saline Solution - Sodium Azide 0.095%

4. Positive Control * 1x0 5 ml

Stabilized solution containing enough human antibody anti - Treponema Pallidum to give visible agglutination - Sodium Azide 0.095%

5. Negative Control 1x 0.5 ml

Protein solution no reactive with the Erythrocytes - Sodium Azide0.095%

6. U - well Microtitration plate 1

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). Further information on the risks to health and / or the environment are given in the data sheet.

Storage and Stability of Reagents Store the kit at 2 - 8° C

All the components are stable until the stated expiration date if stored tightly closed and refrigerated

Preparation and Stability of working solution

Erythrocytes	liquid and ready to use
Control erythrocytes	liquid and ready to use
Diluent	liquid and ready to use
Positive and Negative Control	liquid and ready to use

Gently mix the Ervthrocytes and the Control ervthrocytes to obtain homogeneous suspensions before use.

Keep reagents at Room Temperature before use

Samples

Fresh serum or Citratated plasma

The sample may be stored at 2 - 8°C for 7 days, for longer storage should be at

(After thawing and before use the samples must be mixed with great care)

Caution

BIOLOGICAL RISK

* Each unit of source material used in the preparation of Positive Control has been tested by a licensed method and found non reactive for HbsAg and negative for Antibodies to HCV and HIV 1/2.

However no known test can offer complete assurance that products derived from human blood will not transmit Hepatitis, AIDS or other infectious diseases. This product, like all materials of human origin, should be handled as potentially infectious biological material

Safety Precautions

For in vitro diagnostic use only Do not pipette by mouth

Exercise the normal precautions required for handling laboratory reagents

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Repeat the test using 25 µl of the supernatant Semi-quantitative Procedure

Therefore the Titre of the sample can be between 1:80 (well 3) and 1:10240 (well 10) Shake the plate gently to ensure that the contents are perfectly mixed.

Place the plate on a flat surface, away from vibrations and let stand for 60 minutes

Results

See qualitative procedure and consider the last well showing visible agglutination. Note: The results are reliable if the negative control shows negative result and the positive control shows a titre between 640 and 2560

Performance Characteristics

A. PRECISION

N = 10 (positive sample) CV = 8.1%

B. SENSIBILITY

A study on 110 positive samples gave 100% of positive results

C. ACCURACY Comparison between this method and another commercial one on 2900 samples gave 100% correlation

D. INTERFERENCES

False positive results can be caused by some diseases such as Leprosy, IM and connective Tissue disorders

Notes

1. False positive results can happen in the case of treated syphilis

2. The final diagnosis should not be made using a single test but should be based on more than one result and confirmed by clinical data

Quality control

Positive and Negative Control Sera should be run with each serie. Their results should be compared with those of unknown specimen to distinguish possible agglutination of the reagent

Bibliography

1. Tomizawa T. et all.: Jap. J. Sci. Biol. 19, 305 (1966)

2. Sequiera P. J. L. et all : Brit. J. Vener. Dis. 49, 242 (1972)

Positive: Presence of smooth mat of agglutinated erytrocites (Positive samples should be titrated (see semiquantitative procedure) Indeterminated: Presence of a ring of agglutinated cells with a button in the centre In case of positive results should control that aren't false positive by adding

75 µl of Control Erythrocytes into the Well 2 If well 2 give Negative result, the sample is sample for testing and real positive

If well 2 give Positive result, instead, the sample is not suitable for testing due to the presence of non specific agglutinins.

To eliminate non specific agglutinins mix 25 μ l of sample with 500 μ l of Control Ervthrocytes, incubate for 30 minutes and than centrifuge for 5 minutes.

Reagents	Well 1	Well 2	Well 3	Well 4		Well 10		
Diluent	40 µl	25 µl	25 µl	25 μl		25 µl		
Sample	10 µl	25 µl from well 1	25 µl from well 2	25 µl from well 3		25 µl from well 9		
discard 25 µl from the well 10 and then add 75 µl of Erythrocytes to each well containing 25 µl of diluted sample from well 3 to well 10								
Erythrocytes	-	-	75 µl	75 µl		75 µl		
Control Erythrocytes	-	75 µl	-	-		-		
TITRE*	-	-	1:80	1:160		1:10240		