QUALITATIVE DETERMINATION OF RHEUMATOID FACTOR IVD

ORDER INFORMATION

<table>
<thead>
<tr>
<th>REF: RPR 50</th>
<th>RPR 500</th>
<th>Cont.</th>
<th>50 Tests</th>
<th>500 Tests</th>
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</thead>
</table>

CLINICAL SIGNIFICANCE

Reagins are a group of antibodies against some components of the damage tissues from patients infected by *Treponema pallidum*, the agent which causes the syphilis. This microorganism produces some damage to the liver and heart, releasing some tissue fragments. Immunological patient system reacts producing reagins, antibodies against these fragments.

PRINCIPLE

The RPR Syphilis screening test is a macroscopic non-treponemal flocculation card test for detection and to quantify reagin, an antibody like substrate present in serum or plasma and spinal fluid from syphilitic persons.

REAGENT COMPOSITION

Reagent I : Carbon Antigen Suspension
Reagent II : Positive Control Serum
Reagent III : Negative Control Serum

ACCESSORIES

20G Dispensing Needle (16 μl/drop)
Disposable Test cards
Disposable Stirring rods
Disposable Sample droppers

SAFETY PRECAUTIONS AND WARNINGS

Components from human origin have been tested and found to be negative for the presence of HBsAg, HCV, and antibody to HIV (1/2). However handle cautiously as potentially infectious.

SAMPLE COLLECTION AND PRESERVATION

Serum

REAGENT PREPARATION AND STORAGE

All reagents are ready to use.

REAGENT STABILITY

All reagents and controls are ready for use and stable up to the expiry date when stored at 2-8°C

ASSAY PROCEDURE

PROCEDURE : QUALITATIVE TEST

1. Bring all reagents and samples to room temperature.
2. Using the disposable sample dropper, dispense one drop of serum or plasma onto a separate circle on the test card. Use a fresh disposable sample dropper for each sample. Repeat step 2 using the positive and negative control sera.
3. Using the disposable stirring rod, spread the sample over the entire area of the test circle.
4. Mix the carbon antigen well and Place one drop of “free fall” Antigen suspension onto each test specimen using 20G dispensing needle.

DO NOT MIX THE SAMPLE AND THE ANTIGEN.

5. Place the card on a rotator and rotate for 8 minutes at 100 rpm. Immediately after 8 minutes rotation, read the results macroscopically in good light.

QUALITATIVE TEST RESULTS

Reactive : The presence of large aggregates in the center or the periphery of the test circle.
Weakly Reactive : The presence of small or fine aggregates.
Non-Reactive : Smooth grey appearance with no aggregates visible.

NOTE : All reactive specimens should be retested with the quantitative test procedure to obtain the titre.

PROCEDURE : QUANTITATIVE TEST FOR EACH SPECIMEN TO BE TESTED:

1. Place 50μl of 0.9% saline with a pipette into test circles, numbered 2 to 5. Do not spread saline.
2. Place 50μl of specimen onto test circle 1.
3. Place 50μl of of specimen onto the test circle 2. Prepare serial twofold dilutions by drawing the mixture up and down the pipette 5-6 times (avoid any bubble formation). Transfer 50μl from circle 2 to 3, to 4, to 5. Dispose 50μl from circle 5 after mixing.
4. Using a new stirring rod for each specimen, start at highest dilution of serum (circle 5) and spread over entire area of test circle. Proceed to circles 4,3,2 and 1.
5. Follow steps 4 to 5 in the Procedure of qualitative test.

QUANTITATIVE TEST RESULTS

<table>
<thead>
<tr>
<th>Circle No.</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dilution</td>
<td>Undiluted</td>
<td>1/2</td>
<td>1/4</td>
<td>1/8</td>
<td>1/16</td>
</tr>
<tr>
<td>Reactive 1/2</td>
<td>R*</td>
<td>R</td>
<td>R</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Reactive 1/8</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
</tr>
<tr>
<td>Reactive 1/16</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
</tr>
</tbody>
</table>

*: R = Reactive **: N = Non Reactive

If the last dilution (circle5) 1:32 is reactive, proceed to test further dilutions of 1:64, 1:128, 1:256 as above.

WARNING

The diagnosis of syphils should not be made on a single reactive result. Reactive RPR test specimen should be subjected to further confirmation test (TPi<FTA<TPHA).

CALCULATION

N.A.

QUALITY CONTROL

Accutestrol N - H

REFERENCE INTERVAL

N.A

BIBLIOGRAPHY