Select the right combination to diagnose Syphilis

2 complementary agglutination tests for the detection of treponemal and non-treponemal antibodies in serum

- All-in-one kits (controls included)
- Qualitative or semi quantitative approaches available
- Cost effective, routine laboratory test
- High sensitivity and specificity
- Fast results for clinicians
**Principle**

During Syphilitic infection, 2 groups of antibodies are detectable: nontreponemal antibodies which react with nonspecific antigens (RPR VDRL test), and treponemal antibodies which react with the specific antigens to T. pallidum (TPHA test).

**RPR VDRL test** is a serologic cardiolipidic and nontreponemal test for the quick detection of Syphilis. The reagent consists of a suspension of cardiolipin/lecithin/cholesterol and carbon particles in order to improve the visual reading. Cardiolipidic antigens react with the antibodies (reagin) present in the sample and form macroscopically visible black dumps.

**TPHA test** detects human T. pallidum antibodies by an haemagglutination method. Avian erythrocytes are sensitized with T. pallidum fragments. In the presence of specific anti-T. pallidum antibodies, sensitized erythrocytes (Test Cells) agglutinate resulting in characteristic clouding at the bottom of the wells of the microtitre plate. In the absence of antibodies, they sediment and form a very dense ring or compact button in the bottom of the well. Unspecific reactions are detected using Control Cells which are unsensitized erythrocytes.

**Methodology**

**TPHA (QUALITATIVE PROCEDURE):**

1. Mix 190 µL diluent + 10 µL serum or control(s)
2. Remove 150 µL
3. Transfer 25 µL of mixture
4. Add 75 µL of: Test Cells / Control Cells

Tap plate gently to mix the contents thoroughly

Results are expressed as an agglutination intensity (- to 4+).

**RPR VDRL (QUALITATIVE PROCEDURE):**

1. Dispense 1 drop of serum / plasma or control(s)
2. Dispense 1 free-falling drop of the antigen suspension
3. Rotate 8 min at 100 r.p.m

Examine immediately the presence or absence of visible agglutination.

**Product range**

<table>
<thead>
<tr>
<th>REF.</th>
<th>NAME</th>
<th>QTY</th>
<th>SENSITIVITY</th>
<th>SPECIFICITY</th>
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<tbody>
<tr>
<td>RPRL-0100</td>
<td>RPR VDRL CARBON</td>
<td>100 tests</td>
<td>&gt;99%</td>
<td>&gt;99%</td>
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<tr>
<td>TPHA-0100</td>
<td>TPHA</td>
<td>100 tests</td>
<td>98.5%</td>
<td>99.6%</td>
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<td>TPHA-0004</td>
<td>MICROPLATES</td>
<td>5 units</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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