



INSTRUCTION FOR USE

English Version

Product Name: rapindo Syphilis

RAPINDO™ Syphilis

Rapid Test for Syphilis
(Modified TPHA)

DEVICE

INTENDED USE

RAPINDO™ Syphilis is a rapid, qualitative, two site double antigen sandwich immunoassay for the detection of antibodies to *Treponema pallidum* (Syphilis) in human serum / plasma / Whole blood specimen. For professional use.

SUMMARY

Syphilis is a sexually transmitted (venereal) disease caused by the spirochete *Treponema pallidum*. The disease can also be transmitted congenitally thereby attaining its importance in antenatal screening. After infection the host forms non-treponemal anti lipoidal antibodies (reagins) to the lipoidal material released from the damaged host cells as well as *Treponema* specific antibodies. Serological tests for non-treponemal antibodies such as VDRL, RPR, TRUST etc. are useful as screening tests. Tests for *Treponema* specific antibodies such as TPHA, FTA-ABS, rapid *Treponema* antibody tests are gaining importance as screening as well as confirmatory tests because they detect the presence of antibodies specific to *Treponema pallidum*.

RAPINDO™ Syphilis is a modified TPHA, which qualitatively detects the presence of IgM and IgG class of *Treponema* specific antibodies during syphilis in whole blood, serum or plasma specimens within 15 minutes.

PRINCIPLE

RAPINDO™ Syphilis utilizes the principle of agglutination of antibodies/ antisera with respective antigen in immunochromatography format along with use of nano gold particles as agglutination revealing agent. As the test sample flows through the membrane assembly of the test device, the recombinant *Treponema pallidum* antigens (47 kDa, 17 kDa) - colloidal gold conjugate forms a complex with *Treponema* specific antibodies in the sample. This complex moves further on the membrane to the test region where it is immobilized by the recombinant *Treponema pallidum* antigens (47 kDa, 17 kDa) coated on the membrane leading to the formation of a pink to deep purple coloured band at the test region 'T' which confirms a positive test result. Absence of this coloured band in test region 'T' indicates a negative test result. The unreacted conjugate and the unbound complex if any, along with rabbit globulin - colloidal gold conjugate move further on the membrane and are subsequently immobilized by the Agglutinating sera for rabbit globulin coated on the membrane at the control region, forming a pink/purple coloured band. This control band serves to validate the test results.

REAGENTS AND MATERIALS SUPPLIED

A. Each individual pouch of **RAPINDO™ Syphilis** contains:

1. **DEVICE**: Membrane assembly predispensed with recombinant *Treponema pallidum* antigens (47 kDa, 17 kDa)- colloidal gold conjugate, rabbit globulin-colloidal gold conjugate, recombinant *Treponema pallidum* antigens (47 kDa, 17 kDa) and Agglutinating sera for rabbit globulin coated at the respective regions.
2. **PIPETTE**: Disposable plastic sample applicator.
3. Desiccant pouch.

B. **BUF**: Diluent Buffer in a dropper bottle.

C. Package insert.

OPTIONAL MATERIAL REQUIRED

Calibrated micropipette capable of delivering 25 µl sample accurately.

STORAGE AND STABILITY

The sealed pouches in the test kit & the kit component may be stored between 4°C to 30°C for the duration of shelf life as indicated on the pouch/ carton. After first opening of the diluent buffer, the buffer is stable until the expiry date mentioned on the buffer label, if kept at 4°C to 30°C. DO NOT FREEZE.

NOTE

1. For in vitro diagnostic use only. NOT FOR MEDICINAL USE.
2. Do not use the kit beyond expiry date and do not re-use the test device.
3. Read the instructions carefully before performing the test.
4. Contact with the contents of desiccant pouch containing, among other substances, cobalt chloride (CAS# 7646-79-9) should be kept to a minimum. Inhalation / swallowing may cause harm.





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5. Handle all specimens as potentially infectious.
6. Do not intermix the reagents from different lots.
7. Follow standard bio-safety guidelines for handling and disposal of potentially infective material.

SPECIMEN COLLECTION AND PREPARATION

● Whole Blood as sample:

Fresh blood from finger prick / puncture may be used as a test specimen. For collection of whole blood as a test specimen, EDTA or Heparin or Oxalate can be used as a suitable anticoagulant. The specimen should be collected in a clean glass or plastic container. If immediate testing is not possible then the specimen may be stored at 2°C to 8°C for up to 72 hours before testing. Do not use haemolysed, clotted or contaminated blood samples for performing the test.

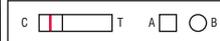
● Serum or Plasma as sample:

No special preparation of the patient is necessary prior to specimen collection by approved techniques. Though fresh serum/ plasma is preferable, serum/ plasma specimens may be stored at 2°C to 8°C for upto 72 hours, in case of delay in testing. Do not use haemolysed or contaminated specimens. Turbid specimens should be centrifuged or allowed to settle and only the clear supernatant should be used for testing.

TESTING PROCEDURE AND INTERPRETATION OF RESULTS

Bring kit components, specimen to room temperature prior to testing.

1. Bring the sealed pouch to room temperature, if the pouch of the test device is damaged, discard the device and take a new one for the test. Open the pouch, remove the device and place it on a flat surface. Label the device with patient's identity. Once opened, the device must be used immediately. Check the color of the desiccant. It should be blue, if it has turned colorless or faint blue or Pink, discard the device and use another device. **Once opened, the device must be used immediately.**
2. Tighten the cap of the diluent buffer provided with the kit in the clock wise direction to pierce the dropper bottle nozzle.
3. With the help of the applicator provided dispense one drop (approx. 25 µl) of serum / plasma or whole blood to the sample port 'A'. Alternatively 25 µl of serum / plasma or whole blood specimen may be delivered in the sample port 'A' using a micro pipette.
4. Immediately add four drops of diluent buffer from the diluent buffer bottle to reagent port 'B'.
5. Read the results at the end of **15 minutes** as follows:



Negative: Appearance of only one pink to deep pink/purple coloured band at the control window 'C'.



Positive: In addition to the control band, a distinct pink/purple coloured band also appears at the test window 'T'.



Invalid: The test should be considered invalid if neither the test band nor the control band appear. Repeat the test with a new device.

6. Although, depending on the concentration of treponema antibodies in the specimen, positive results may appear as early as 2 to 3 minutes, negative results must be confirmed only at the end of 15 minutes.

PERFORMANCE CHARACTERISTICS

External evaluation

RAPINDO™ Syphilis was evaluated by The Center for Biomedical and Health Genomics - Ministry of Health of Republic of Indonesia. For sensitivity and specificity, the combined result of **RAPINDO™ Syphilis** sensitivity is found to be 90% and of specificity is found to be 100%.





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REMARKS

1. **RAPINDO™ Syphilis** detects the presence of treponemal antibodies; thus a positive result indicates a past or present infection. Positive results should be evaluated in co-relation with the clinical condition before arriving at a final diagnosis.
2. Low levels of antibodies to *Treponema pallidum* such as those present at a very early primary stage of infection can give a negative result. But a negative result does not exclude the possibility of exposure to or infection with *Treponema pallidum*. Retesting is indicated after two weeks if clinically syphilis is still suspected.
3. In order to assess the clinical response to treatment it is advisable to use a reagin test such as VDRL, RPR.
4. **RAPINDO™ Syphilis** detects treponemal antibodies in whole blood/ serum/ plasma; other body fluids may not give accurate results.
5. In immunocompromised patients the test results must be interpreted with caution. Testing of pooled samples is not recommended.
6. As with all diagnostic tests, result must correlated with clinical findings .

WARRANTY

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

BIBLIOGRAPHY

1. Syphilis: New Diagnostic Directions, H. Young, International Journal of STD and AIDS, 1992, 3: 391-413.
2. Clinical Laboratory Diagnostics: Use and Assessment of Clinical Laboratory Results, Lothar Thomas, 1st Edition, 1998, TH-Books.
3. ABB Technical Manual, 13th Edition, 1999.
4. Clinical Diagnosis and Management by Laboratory Methods, John Bernard Henry, 17th Edition, 1979, W.B.Saunders Company.
5. Data on File: PT Tulip Diagnostics Indonesia.

SYMBOL KEYS

 Temperature Limitation	 Consult Instructions for use	 Date of Manufacture
 Professional use Only	 In vitro Diagnostic Medical Device	 This side up
 Use by	 Catalogue Number	 Device
 Contains sufficient for <n> tests	 Batch Number / Lot Number	 Disposable Plastic Sample Applicator
 Do not reuse	 Diluent Buffer	

Manufactured & Distributed by:

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