

## INTENDED USE

Strip test for detection of Syphilis in serum or plasma.

## INTRODUCTION

Ultra sensitive One Step Anti-Syphilis Strip Test is a rapid and Immunochromatographic procedure for the qualitative detection of Treponemal antibodies (IgA, IgM, IgG) generated against *Treponema pallidum* antigens (17KDa, 15KDa, 47KDa) in human serum/plasma with high sensitivity and specificity. Test results are read visually without any instrument. Purified recombinant syphilis antigens are employed to identify anti-Syphilis antibodies specifically and it also used in detection of congenital syphilis.

## PRINCIPLE

Syphilis Rapid Test strip is a qualitative membrane based immunoassay for the detection of TP antibodies (IgA, IgM, IgG) in Serum or Plasma. In this procedure, recombinant syphilis antigen (17KDa, 15KDa, 47KDa) is immobilized in the test line region of the strip. Dip the strip in the specimen; it reacts with syphilis antigen coated particles in the test. This mixture migrates chromatographically along the length of the test strip and interacts with the immobilized Syphilis antigen. The double antigen test format can detect IgA, IgG and IgM in specimens. If the specimen contains TP antibodies a pink-purple line will appear in the test line region, indicating a positive result. If the specimen does not contain TP antibodies, a pink-purple line will not appear in this region, indicating a negative result. To serve as a procedural control, an additional line of Goat anti-mouse IgG has been immobilized on the card. If the test is performed correctly, this will result in the formation of pink-purple line upon contact with the conjugate as a control line.

## PRESENTATION

	50 Test	100 Test
Syphilis test strips	50 Strips	100 Strips

## PRECAUTION

- 1) For in vitro diagnostic use only.
- 2) Do not use test kit beyond expiry date.
- 3) The test device should not be reused.
- 4) Do not freeze the Kits.
- 5) Specimen with extremely high concentrations of red blood cells, fibrin should be re-centrifuged before use

## STORAGE AND STABILITY

Syphilis test strip should be stored at 4-40°C. The strip may be stored at room temperature but not exceeding 40°C in the original sealed pouch. The shelf life or expiry of the strip is printed on the pouch as well as on the carton label. The test kit should be kept away from direct sunlight, moisture and heat.

## SPECIMEN COLLECTION & STORAGE

For Serum, collect blood into a test tube without anticoagulant. Allow the blood to clot and separate the serum from the clot. Use the serum for testing.

If the specimen cannot be tested on the day of collection, store the serum specimen in a refrigerator or freezer. Stir and bring the specimens to room temperature before testing. Do not freeze and thaw the specimen repeatedly.

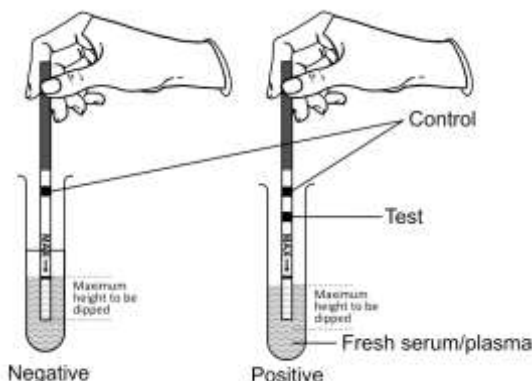
## TEST PROCEDURE

1. When you are ready to begin testing, open the sealed pouch by tearing along the notch. Remove the test strip from the pouch and test it as soon as possible.
2. Following the illustration, dip the test strip with the arrow side pointing down into the test tube of serum until you see that the control line (the upper part in the reaction zone) as fully formed. Do not immerse past the marker line. Take the strip out and lay it on a clean, dry and non-absorbent surface.
3. Wait for 5 to 20 minutes and read results. It is important that the background should be clear before reading the result.

## IMPORTANT NOTE

Do not read results after 30 minutes since serum back flow may cause false results.

## INTERPRETATION OF RESULTS



- **Negative:** Only one pink-purple line appears on the control (C) region. No apparent line on the test (T) region.
- **Positive:** In addition to a pink-purple control (C) line, a distinct pink-purple line will also appear in the test (T) region.
- **Invalid:** A total absence of pink-purple line in both regions or no line appears on the control (C) region is an indication of procedure error and / or the test reagent deterioration. Repeat the test with a new strip.

## SENSITIVITY & SPECIFICITY

To establish the sensitivity and specificity of One-step Syphilis test strip relative to other rates of qualitative serum Syphilis tests, 305 clinical samples were studied. Another commercially available Qualitative test kit was used to compare with Reckon Diagnostic One-step Syphilis test strip kit for relative sensitivity and specificity in 305 serum samples. Only 1 sample was discordant, the agreement is 99.67%.

## LIMITATIONS

1. As with all diagnostic tests, all results must be considered with other clinical information available to the physician. A definite clinical diagnosis should only be made by the physician after all clinical and laboratory findings have been evaluated.
2. This test kit is for the detection of TP antibodies in serum specimen. This test is for in vitro diagnostic use only. Neither the quantitative value nor the rate of increase in TP antibodies can be determined by this qualitative test.
3. This test kit will only indicate the presence of TP antibodies in the specimen and should not be used as the sole criteria for the diagnosis of TP infection.
4. If the test result is negative and clinical symptoms persist, additional testing using other clinical methods is recommended. A negative result does not at any time preclude the possibility of TP infection.
5. Positive result should be confirmed by other confirmatory tests.

## REFERENCES

- 1) Claire FM. Complete genome sequence of *Treponema pallidum*, the syphilis spirochete, Science 1998; 281 July 375-381.
- 2) Center for Disease Control. Recommendations for diagnosis and treating Syphilis in HIV - infected patients, MMWR Morb. Mortal Wkly Rep. 1998; 37:601