



# SYPHILIS TESTING



Fortress  
Diagnostics

## Syphilis Testing

Syphilis testing is crucial in diagnosing and managing syphilis, a sexually transmitted infection (STI) caused by the bacterium *Treponema Pallidum* (TP). Early detection is essential as syphilis progresses through stages (primary, secondary, latent, and tertiary), with potentially severe complications if left untreated, including neurological and cardiovascular damage. Common syphilis tests include non-treponemal tests (such as RPR and VDRL), which detect antibodies produced in response to the infection, and treponemal tests (such as FTA-ABS and TPPA), which detect specific antibodies against *T. pallidum*.

The importance of syphilis testing in diagnostics lies in its role in early detection, allowing timely treatment with antibiotics (usually penicillin) to prevent long-term complications. Testing is also essential for controlling the spread of the infection, especially in pregnant women, as untreated syphilis can lead to congenital syphilis, causing severe harm to the baby. Routine screening in high risk populations helps in public health efforts to reduce syphilis transmission and related health complications.

According to the Center for Disease Control (CDC), the number of cases of Syphilis infection has markedly increased since 1985. Some studies have reported a substantial epidemiological correlation between the acquisition and transmission of the HIV virus and Syphilis. In response to this high demand, Fortress Diagnostics manufactures, develops and supplies an extensive range of high quality syphilis tests with controls and associated reagents.

## Featured Products

### RPR (Rapid Plasma Reagin)



The Fortress Diagnostics Rapid Plasma Reagin or RPR Card test is a non-treponemal method for the serological detection of syphilis. The antigen – a particulate carbon suspension coated with lipid complexes – agglutinates in the presence of serum reagins. Reagins are antibodies present in the sera of syphilitic patients. Visible agglutination in the form of black clumps which can be viewed macroscopically, indicate the presence of such antibodies in the sample tested.

### Syphilis Control Set



The Fortress Diagnostics Syphilis Control Set is designed for the validation of the Fortress range of Syphilis Test Kits. It is recommended that a positive and negative control be included with each run of tests carried out.

### TPHA (Treponema Pallidum Haemagglutination)



The Fortress Diagnostics TPHA Test is a sensitive and specific indirect haemagglutination test for the detection of antibodies to *Treponema Pallidum*. Preserved avian erythrocytes are coated with antigen components of pathogenic *T. Pallidum* (Nichol's strain). These Test Cells then agglutinate in the presence of specific antibodies to *T. Pallidum* resulting in the formation of characteristic patterns in microtitration plates. Antibodies to non-pathogenic treponemes are absorbed by an extract of Reiter's treponeme which has been added to the cell suspensions.

### VDRL (Venereal Disease Research Laboratory)



The Fortress Diagnostics VDRL test is a non-treponemal flocculation test for the detection and titration of reagins. Reagins are antibodies raised against syphilis induced tissue damage. VDRL Cardioliipin is an alcohol based solution which comprises of three chemically pure components – cardioliipin, lecithin and cholesterol. When the antigen is added to the VDRL buffered saline solution, it forms an emulsion of fine particles which flocculate in the presence of reagins.

## Ordering Information

Description	Details	Format	Cat No.	Size	Storage
RPR	Reagent Only	LS	SYCA0002	2ml (100T)	2-8°C
RPR	Reagent Only	LS	SYCA0005	5ml (250T)	2-8°C
RPR	Reagent Only	LS	SYCA0010	10ml (500T)	2-8°C
RPR	Reagent Only	LS	SYCA0100	100ml (5000T)	2-8°C
RPR	Reagent Only	LS	SYCA1000	1000ml (50,000T)	2-8°C
RPR	Positive & Negative Control, Pipette/Stirrers, Test Cards, Dispensing Bottle and Needle	LS	SYRPR025	25T	2-8°C
RPR	Positive & Negative Control, Pipette/Stirrers, Test Cards, Dispensing Bottle and Needle	LS	SYRPR050	50T	2-8°C
RPR	Positive & Negative Control, Pipette/Stirrers, Test Cards, Dispensing Bottle and Needle	LS	SYRPR100	100T	2-8°C
RPR	Positive & Negative Control, Pipette/Stirrers, Test Cards, Dispensing Bottle and Needle	LS	SYRPR500	500T	2-8°C
Syphilis Control	Positive & Negative Controls 5 x 1.0ml vials of each	LS	SYPN0010	2 x 5 x 1ml	2-8°C
TPHA	TPHA with +ve and -ve Controls	LS	SYTP0100	100T	2-8°C
TPHA	TPHA with +ve and -ve Controls	LS	SYTP0200	200T	2-8°C
TPHA	TPHA Negative Control	LS	STNC0001	1ML	2-8°C
TPHA	TPHA Positive Control	LS	STPC0001	1ML	2-8°C
VDRL	VDRL Antigen & Buffered Saline Diluent	LS	SYVD0005	1 x 5ml VDRL, 1 x 60ml Buffer	2-8°C





**Fortress  
Diagnostics**



9A, The Technology Park, Antrim,  
United Kingdom, BT41 1QS



+44 (0)28 9448 7676



[info@fortressdiagnostics.com](mailto:info@fortressdiagnostics.com)



[fortressdiagnostics.com](https://fortressdiagnostics.com)



**BR011FOROCT24**

Copyright © 2024 Fortress Diagnostics Ltd. All rights reserved. VAT No.: GB 424802023. Product availability may vary from country to country and some products may be for Research Use Only (RUO). For more information on product application or availability, please contact us.