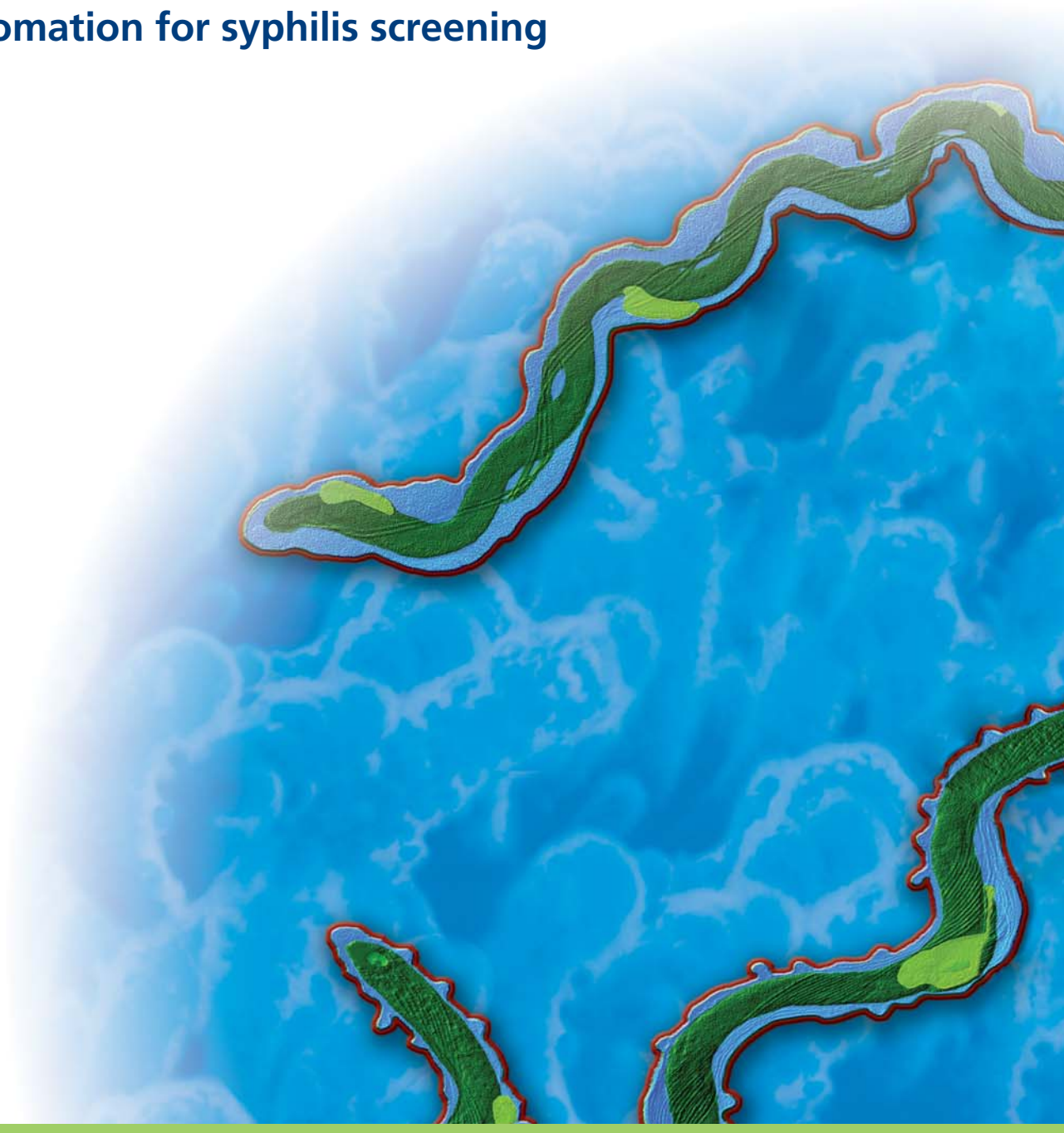
Infectious Disease

Treponema pallidum total antibodies

Total automation for syphilis screening



DiaSorin

The Diagnostic Specialist

Infectious Disease

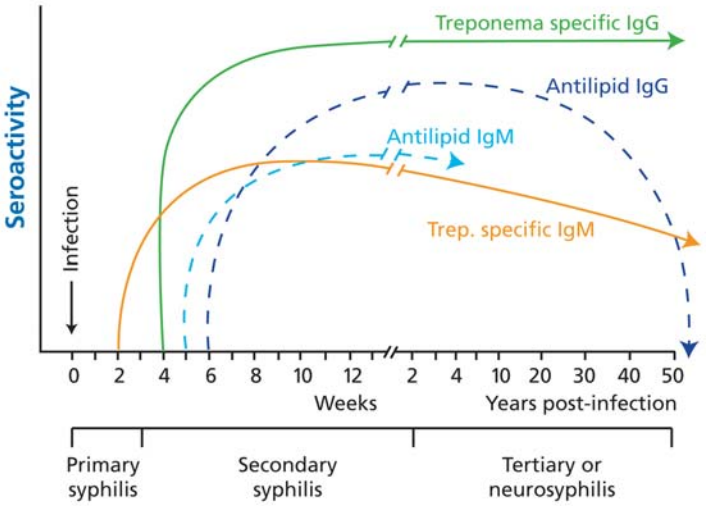
Syphilis screening?
LIAISON® Treponema screen is the solution

Clinical background

Syphilis is a chronic infectious disease caused by sexual or congenital transmission of the *Treponema pallidum* spirochetae. The disease progresses through distinct stages of infection characterised by diverse clinical symptoms.
Serological testing is essential in the detection and control of syphilis infection.
The WHO guidelines for syphilis serological diagnosis suggest the use of two combined serological tests for syphilis: 1) non-treponemal tests like the Venereal Diseases Research Laboratories test (VDRL) or Rapid Plasma Reagin (RPR) and 2) treponemal tests like the Fluorescent Treponema Antibody ABSorbtion test (FTA-ABS) or *T. pallidum* haemagglutination test (TPHA).
New European recommendations[1] extended the WHO guidelines suggesting the treponemal antigen-based enzyme immunoassays as an appropriate alternative to the use of combined VDRL/RPR and TPHA screening.
An excellent solution to the screening of total antibodies is LIAISON® Treponema Screen, a fully automated chemiluminescence based test.

Syphilis screening

Antibody patterns during treponemal infection[2]



Non-treponemal tests (VDRL, RPR)
+
Treponemal tests (FTA-ABS, TPHA)
=
Treponemal antigen-based immunoassays (EIA,CLIA)

1.Egglestone SI et al. PHLS Syphilis Serology Working Group. Commun. Dis. Public Health 2000; 3(3):158-62
2.Müller F, Hagedorn HJ. Syphilis in: Clinical Laboratory Diagnostics, Thomas L; TH Books Frankfurt 1998;1203-12

Main Features

- Number of tests: 200
- Solid phase & conjugate: recombinant antigens
- Label: Isoluminol derivative
- Method: CLIA
- Assay format: Direct sandwich

Flexibility enables quick and reliable results

- Diagnostic Specificity: 99.91% (95% C.I.: 99.75 - 99.98%)
- Diagnostic Sensitivity: 99.40% (95% C.I.: 96.73 - 99.98%)
- High throughput: 180 results/hour
- Time to first result: 40 min
- Reagent stability on board: 4 weeks
- Two-point recalibration, stable for 2 week

Ordering information

LIAISON® Treponema Screen (code 310840)

LIAISON® Control Treponema Screen (code 310841)

M0870004184 12159 0211

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