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# Lues serology (TPHA, VDRL)

#### General:

Diagnostic procedure: TPHA is considered a screening test; if negative, there is no sign of recent or postacute Treponema pallidum infection. If TPHA is positive, TP Western blot IgG or IgM is recommended; VDRL should be tested only as therapy monitoring or in case of suspicious reactivation. It is not specific and represents an activity marker only.

The following tests are available:

## • TPHA (Treponema Pallidum Heme Agglutination Assay) in serum

Indication: Screening test for the recognition of antibodies against Treponema pallidum

(both IgG and IgM)

Material: 1 ml serum

Stability: 7 days at 2 to 8°C

TAT: same day, FML

Method: TPHA

Units: Titer

Ref.- range: <1:80

Note: The TPHA titer is usually persisting over many years (sometimes lifelong);

possible cross-reactions with Borrelia antibodies possible, therefore an exclusion of borrelia infection is recommended. False positive results are

observed in patients with immune disorders.

#### TPHA in CSF (Please note that this test has been discontinued.)

Material: 1 ml CSF

TAT: 7-10 days\*

Method: HA

Units: Titer

Akkreditierungsstelle

D-ML-13455-01-00

Ref.- range: <1:2

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# Treponema pallidum IgM antibodies,BLOT

Indication: Suspicion of fresh, acute infection

Material: 2 ml serum
TAT: 7-10 days\*
Method: Western blot
Ref.- range: see reports

#### Treponema pallidum IgG antibodies, BLOT

Indication: Confirmation test in positive TPHA test, suspicion of Neurolues

Material: 2 ml serum
TAT: 7-10 days\*
Method: Western blot
Ref.- range: see reports

#### VDRL / Venereal disease of research laboratory test^

#### General:

With VDRL testing (synonym: Cardiolipin Microflocculation Test, CMT), antibodies are made visible through cardiolipin aggregation. Cardiolipin is a phospholipid and is sometimes released as endogenous antigen (autoantigen) during certain infections, such as lues. The reaction is therefore not lues-specific. The reaction is positive in the second phase of a primary syphilis (regional lymphadenitis). It can be false negative in the tertiary stage. An isolated positive result does not confirm a lues infection.

Temporary or persisting positive non-specific results are observed in autoimmune disorders, acute and chronic infections, collagenosis, neoplasmas, in pregnancy, with different drugs. VDRL always reacts positive in infections with treponema species (T. pertenue/Framboesia, T. carateum/Pinta). VDRL is suitable only for therapy monitoring during lues treatment.

## VDRL in blood, qualitative/quantitative

Indication: Activity marker, course monitoring

Material: 1 ml serum

Stability: 7 days at 2 to 8°C

TAT: same day, FML

Method: AGGL

Units: Qualitative, Titer

Ref.- range: negative

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# • VDRL in CSF, quantitative

Material: 0.3 ml CSF

TAT: 7-10 days\*

Method: PA

Units: Titer

Ref.- range: see report

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit <a href="http://www.fml-dubai.com/parameter-listings/">http://www.fml-dubai.com/parameter-listings/</a>

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