

# Parvovirus

## General:

Parvovirus occurs endemically, the infection is transmitted by droplets or more rarely parenterally. After an incubation period of 13-17 days, an erythema infectiosum, lymph node swellings and influenzal symptoms occur. Arthralgies and arthritises also have been observed. Parvovirus-B19 can lead to a temporary myelodysplasia with inhibition of the erythropoiesis (aplastic crises in patients with hemolytic anemias).

**In pregnancy** the virus endangers the fetus by diaplacental infection and causes in approx. 10% of the cases cardiomyopathy and hydrops fetalis with possible - if untreated with intrauterine blood transfusion - intrauterine fetal death. In these cases, a quick detection of Parvovirus B19 DNA by PCR in amniotic fluid is recommended.

The following tests are available:

- **Parvovirus B19 IgM antibodies**

Indication: Suspicion of acute infection, clarification of erythema

Material: 1 ml serum

TAT: 7-10 days\*

Method: LIA

Units: Index

Ref.- range: <0.9

- **Parvovirus B19 IgG antibodies**

Indication: clarification of erythema, immunity

Material: 1 ml serum

TAT: 7-10 days\*

Method: LIA

Units: Index

Ref.- range: <0.9

- **Parvovirus B19 IgM Western blot**

Indication: clarification of non-specific IgM antibody result with EIA

Material: 1 ml serum

TAT: 7-10 days\*

Method: Western blot

Ref.- range: see report

- **Parvovirus B19 IgG Western blot**

Indication: clarification of non-specific IgG antibody result with EIA

Material: 1 ml serum

TAT: 7-10 days\*

Method: Western blot

Ref.- range: see report

- **Parvovirus B19 DNA**

Indication: infection clarification, infectivity, virus persistence, suspicion of perinatal infection

Material: 2 ml EDTA blood

Preanalytics: EDTA blood, throat swab, chorion villae tissue, abortion material or amniotic fluid in sterile vials. Please send a separate vial for Parvovirus-B19 DNA detection since minor DNA contamination can lead to wrong results in the PCR!

TAT: 7-10 days\*

Method: PCR

Ref.- range: negative

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit

<http://www.fml-dubai.com/parameter-listings/>