Automated Diagnostics of Parvovirus B19 infections

Anti-Parvovirus B19 IgG – ORG 912 G
Anti-Parvovirus B19 IgM Abs. – ORG 912MX
24 Alegria® Test Strips each

The Alegria® Anti-Parvovirus B19 tests allow for quantitative and fully automated detection of IgG or IgM class antibodies against Parvovirus B19, the causative organism of fifth disease (Erythema infectiosum).

The ORGENTEC Anti-Parvovirus B19 kits use recombinant VP1 and VP2 proteins of the virus capsid. VP2 forms virus-like particles, with highly specific conformational epitopes.

**Anti-Parvovirus B19 IgG:** recombinant VP2-particles (virus capsid protein 2)
**Anti-Parvovirus B19 IgM Abs.:** recombinant VP1 (virus capsid protein 1)

Presentation of the correct tertiary structure of the antigens is prerequisite for the detection of IgG antibodies after past infection: In the acute phase of the infection IgG and IgM antibodies bind to linear epitopes of the entire structural protein or to conformational epitopes of the virus capsid. After decline of the initial IgM and IgG response IgG antibodies persist, which are preferentially directed against conformational epitopes. In the ORGENTEC-ELISA VP2 proteins form three-dimensional virus-like particles that present the relevant antigen.

- selected recombinant antigen profile for optimal test performance
- VP1 – highly specific detection of IgM class antibodies in acute infection
- three-dimensional conformational epitopes in VP2 virus-like particles – maximum sensitivity of IgG detection also in past infection
- Anti-Parvovirus B19 IgM Abs. with RF-Absorbent; no pre-treatment for absorption of rheumatoid factors required
- rapid automated analysis – from single samples up to 30 different tests in only 90 minutes
- fully automated “walk-away” solution with random access

**References:**