



SERION ELISA

CSF Diagnostics

The determination of intrathecally synthesized antibodies allows for the demonstration and differentiation of inflammatory processes within the central nervous system (CNS). The analysis is based on the detection of antibodies directed against a range of different pathogens in corresponding CSF/serum samples in order to calculate specific antibody indices (AI) according to the scheme of Prof. Hansotto Reiber. Several SERION ELISA immunoassays are validated for the demonstration of antibodies in cerebrospinal fluid (CSF) and so enable the determination of intrathecally synthesized antibodies. The software SERION *easyCSF* supports the calculation of antibody indices. External CSF/serum control sample pairs SERION ELISA AI *control* with AI target values in the pathological and non-pathological range are available for internal quality management.

CSF Diagnostics

CSF Diagnostics allows for the determination and differentiation of inflammatory processes within the central nervous system (CNS). The generally stepwise approach is mainly based on cytological investigations and protein chemistry. The interpretation of existing neurologic symptoms with the suspicion

of an infection of the CNS or a chronic inflammatory process requires a reliable diagnosis based on the determination of intrathecally synthesized antibodies. Therefore, the quantitative demonstration of antibodies directed against a range of different pathogens is performed in cerebrospinal fluid (CSF) and the corresponding serum sample. In case of an acute infection of the CNS local antibodies are produced against the responsible pathogen. Chronic inflammatory processes of the CNS, e.g. Multiple Sclerosis, may result in the activation of a polyspecific immune response against a range of different pathogens.

Antibody Index (AI)

In CSF diagnostics, the antibody index serves for the demonstration of the intrathecal synthesis of pathogen-specific antibodies. The antibody index corresponds to the relationship between the quotient of the specific antibody activity in CSF and serum ($Q_{\text{spec IgX}}$) and the quotient of total immunoglobulin content in CSF and serum (Q_{IgX} or $Q_{\text{lim IgX}}$). A range of different SERION ELISA immunoassays is validated for antibody index determination in CSF diagnostics. The software SERION *easyCSF* can be used to calculate the antibody indices according to Prof. Hansotto Reiber (Reiber and Peter, 2001).



SERION ELISA for CSF Diagnostics

A range of SERION ELISA tests were validated for CSF diagnostics in comprehensive studies. The diagnostic efficiency of each SERION ELISA immunoassay with details of sensitivity and specificity as well as precision is described in the individual instructions for use. Extracts from validation studies of the SERION ELISA immunoassays for CSF diagnostics with information regarding the precision of antibody index determination are available on request.

Order Information

Product description	Order No.
SERION ELISA <i>classic</i> Adenovirus IgG	ESR 128 G
SERION ELISA <i>classic</i> Borrelia burgdorferi IgG	ESR 121 G
SERION ELISA <i>classic</i> Borrelia burgdorferi IgM	ESR 121 M
SERION ELISA <i>classic</i> Cytomegalovirus IgG	ESR 109 G
SERION ELISA <i>classic</i> Enterovirus IgG	ESR 133 G
SERION ELISA <i>classic</i> Epstein-Barr Virus VCA IgG	ESR 1361 G
SERION ELISA <i>classic</i> Epstein-Barr Virus EBNA1 IgG	ESR 1362 G
SERION ELISA <i>classic</i> FSME/TBE Virus IgG	ESR 112 G
SERION ELISA <i>classic</i> FSME/TBE Virus IgM	ESR 112 M
SERION ELISA <i>classic</i> Herpes Simplex Virus 1 IgG	ESR 1051 G
SERION ELISA <i>classic</i> Herpes Simplex Virus 2 IgG	ESR 1052 G
SERION ELISA <i>classic</i> Herpes Simplex Virus 1/2 IgA	ESR 105 A
SERION ELISA <i>classic</i> Herpes Simplex Virus 1/2 IgG	ESR 105 G
SERION ELISA <i>classic</i> Influenza A Virus IgG	ESR 1231 G
SERION ELISA <i>classic</i> Influenza B Virus IgG	ESR 1232 G
SERION ELISA <i>classic</i> Masern/Measles Virus IgG	ESR 102 G
SERION ELISA <i>classic</i> Mumps Virus IgG	ESR 103 G
SERION ELISA <i>classic</i> Röteln/Rubella Virus IgG	ESR 129 G
SERION ELISA <i>classic</i> Toxoplasma gondii IgG	ESR 110 G
SERION ELISA <i>classic</i> Varicella Zoster Virus IgA	ESR 104 A
SERION ELISA <i>classic</i> Varicella Zoster Virus IgG	ESR 104 G
SERION ELISA <i>agile</i> SARS-CoV-2 IgG	ESR 400 G

Please visit our website www.serion-diagnostics.com for more information on our SERION ELISA *classic* products.

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