

ELISA-VIDITEST

Borrelia burgdorferi sensu lato



VIDIA unique immunoenzymatic kit

- Intended for quantitative and semiquantitative detection of specific IgG and IgM antibodies against main pathogenic borrelia strains and determination of intrathecal antibody synthesis

... the way to
the correct
results



IgM
ANTIBODY RESPONSE

a proof of ongoing and recent active infection



IgG
IGG ANTIBODY RESPONSE

a proof of later phase of active and undergone infection

Serological diagnostics

is a basic prerequisite of effective therapy. A proof of Lyme disease, induced by human pathogenic strains of borrelia (*B. afzelii*, *B. garinii* and *B. burgdorferi sensu stricto*) is based on the determination of the concentration of specific antibodies using ELISA method. The serological report is to be interpreted only in context with the clinical picture of the patient.

Benefity souprav

- Quantitative and semiquantitative evaluation of antibodies
- Human serum, plasma cerebrospinal fluid, synovial fluid sample
- Determination of intrathecal synthesis of antibodies
- Recombinant antigens of pathogenic borrelia strains



ELISA-VIDITEST

Kits come from our own research, development and production.

We are VIDIA spol s r. o. Czech biotechnological company with a wide range of kits for diagnostic examination. We develop our products with high quality.

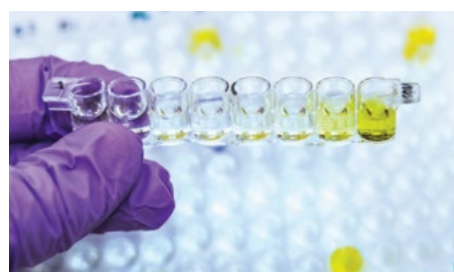
ELISA-VIDITEST

Borrelia burgdorferi sensu lato

ELISA (Enzyme-Linked Immunosorbent Assay) is an immunochemical method used for diagnostics of Lyme disease. It is based on the demonstration of the detection of specific antibodies. These are produced by our organism during the immune response as a reaction to the antigen. The antibody response depends on the borrelia genotype, by which the patient is infected, and on the intensity of the inflammatory response. ELISA-VIDITEST anti-Borrelia IgG kits use highly specific recombinant VlsE antigens which provide them high sensitivity and specificity for the detection of all pathogenic borrelia strains.

The basis of the diagnostics of neuroborreliosis is the determination of intrathecal synthesis of specific antibodies. As a proof, Reiber's formula describing a relationship between Q albumin and Q of the respective antibody is used. The concentrations of the particular antibodies in the serum and cerebrospinal fluid are determined with the so-called antibody index (AI) which states, whether a specific antibody concentration is the same as the total non-specific ones, or whether it is higher. For completely automatic quantification and calculation of intrathecal synthesis we offer VIDISOFT 2 software or E-Calculator.

Test principle and the procedure step by step



1. step

- Preparation of reagents and samples
- Dilution, pipetting and the whole measuring process occurs in the VIDIMAT analyser completely automatically

2. step

- Pipetting of 100 µl controls and diluted samples into wells
- Binding of primary antibodies to antigens occurs on the solid surface of the wells
- Incubation for 30 minutes at 37 °C
- Suction and washing of the wells 4× 250 ml with the washing solution

3. step

- Pipetting of 100 µl of peroxidase conjugate
- Binding of secondary antibody labelled by an enzyme to the primary antibody occurs during incubation
- Incubation for 30 minutes at 37 °C
- Suction and washing of the wells 4× 250 ml with the washing solution

4. step

- Pipetting of 100 µl of chromogensubstrate solution TMB
- Reaction of enzyme and substrate occurs
- Incubation for 15 minutes at RT
- Pipetting of 100 µl of the STOP solution

5. step

- Measurement of absorption at 450/620-690 nm in 10 minutes from stopping the reaction
- Evaluation of the test result occurs completely automatically in VIDIMAT analyser

Benefits of the measurement

- Quantitative and semiquantitative determination of IgG and IgM antibodies in serum, plasma, cerebrospinal fluid and synovial fluid
- Quantification using 5 standards
- Quantification using 1 standard
- Calculation of intrathecal antibodies synthesis using VIDISOFT2 software or E-calculator
- Colour reagents in r. t. u. format
- Unified incubation times, temperatures, reagents for all ELISA-VIDITEST and MONO-VIDITEST
- Manual or automatic test evaluation



VIDIMAT

We provide a precise automatic analyser for easy solutions of the infection serology automatization in cassette and microtiter plate format.

Our kits



REF	Products
ODZ-398	ELISA-VIDITEST anti-Borrelia recombinant IgG + VlsE (CSF)
ODZ-398/5ST	ELISA-VIDITEST anti-Borrelia recombinant IgG + VlsE (CSF)
ODZ-399	ELISA-VIDITEST anti-Borrelia recombinant IgM (CSF)
ODZ-399/5ST	ELISA-VIDITEST anti-Borrelia recombinant IgM (CSF)

