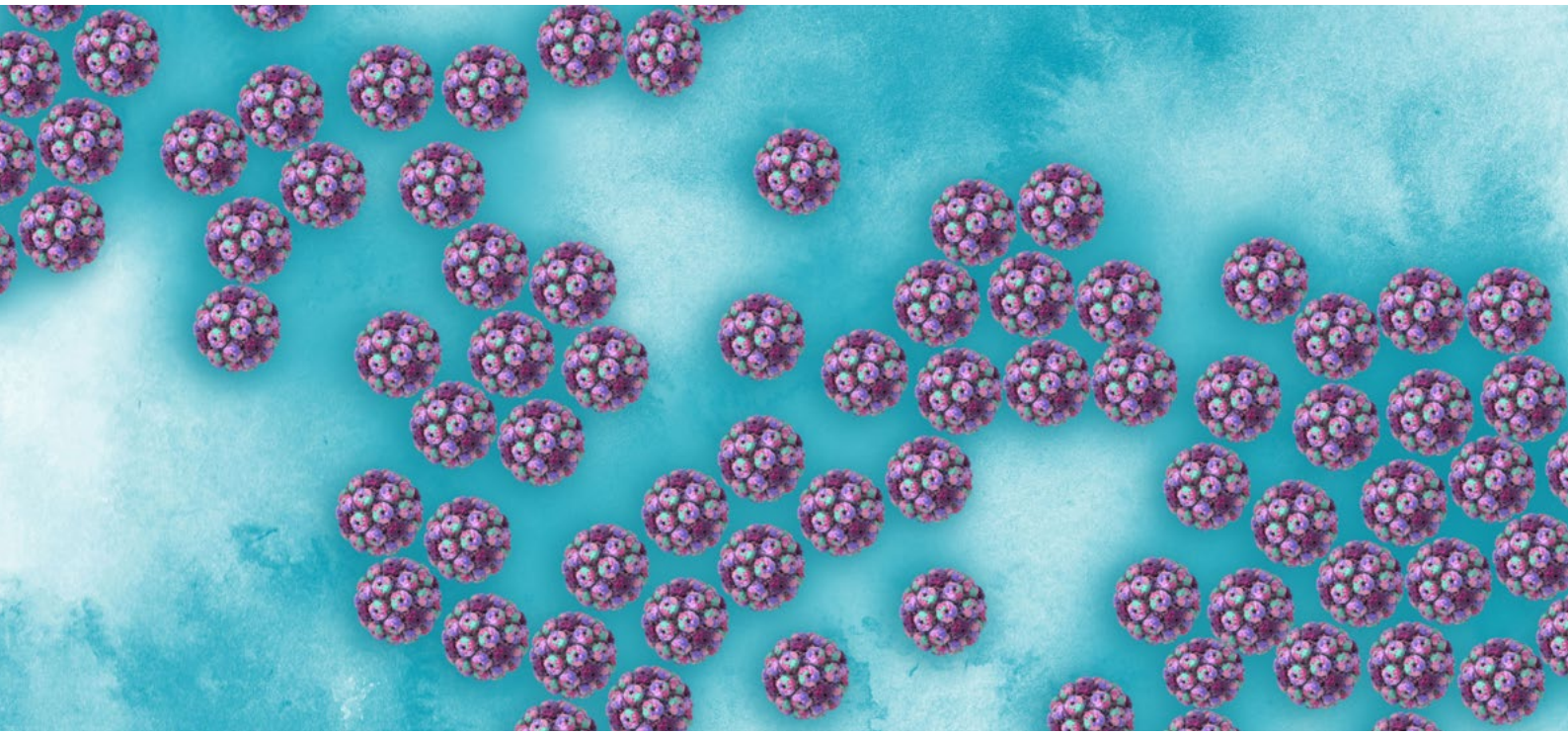
ELISA-VIDITEST
POLYOMAVIRUS BK



VIDIA IMMUNOENZYMATIC KIT

▪ intended for qualitative and semiquantitative detection of specific IgG antibodies against BK polyomavirus (BKV).

...the way to the correct result

IgG ANTIBODY RESPONSE

evidence for primary infection and reinfection

Serological diagnostics

Human BK polyomavirus (BKV) has become very important from a medical point of view, as it is cause of nephropathy (BKVN) in kidney transplant patients, which often contributes to organ rejection. Evaluation of the specific immune response before and after transplantation is very important to obtain information about the recipient's immunological status and to assess the risk of developing BKVN.

Benefits of kits

- Qualitative and semiquantitative evaluation of IgG antibodies
- Pre-transplant serological testing
- Accurate monitoring of BKV infection in transplant patients
- Standardized and high quality results

ELISA-VIDITEST

The kits come from our own research, development and production.

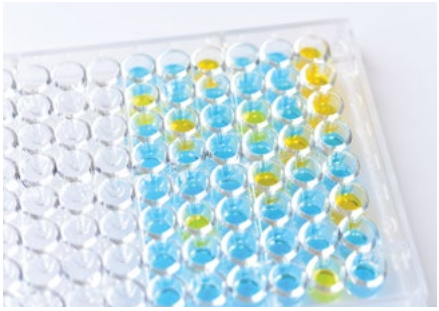
We are VIDIA Ltd., a Czech biotechnology company with a wide range of kits for diagnostic examinations. We develop our products with high quality.

ELISA-VIDITEST
POLYOMAVIRUS BK

The ELISA-VIDITEST anti-BKV IgG kit is intended for laboratory diagnosis of diseases caused by or related to BKV infection (BNVN, hemorrhagic cystitis, urethral stenosis), for differential diagnosis of infections in immunodeficient patients and for determining the risk of these complications in connection with immunosuppressive therapy. One of the reasons for the increase in BKVN nephropathy **is the high prevalence of BK virus in the human population (more than 80 %).**

The development of BKV is influenced by a number of factors of both viral and host origin, as well as by the method of treatment. The absence of anti-BKV antibodies may indicate the patient's susceptibility to primary infection, which is associated with an increased risk of complications. **Primary infection can be diagnosed by demonstrating seroconversion of IgG antibodies to BKV, a significant increase in the level of these antibodies in paired serum/plasma samples may indicate reinfection or reactivation of the virus.**

Test principle and procedure in steps



1. step
- Preparation of reagents and samples

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 RT
- 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 RT
- 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 10 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

Measurement benefits

- Qualitative and semiquantitative determination of IgG antibodies
- Recombinant species-specific BKV antigen (type I and IV genotype)
- Reliable and reproducible results
- Color-coded reagents r.t.u.
- Incubation at room temperature
- Evaluation of the risk of infection transmission and subsequent complications in graft acceptors

Our kits

CE IVD

REF	Products
ODZ-405	ELISA-VIDITEST anti-BKV IgG

VIDIA spol. s r.o.
Nad Safinou II 365, 252 50 Vestec
Czech Republic

Meridian Healthcare srl
Via Caronda, 446 - 95100
Catania -ITALY