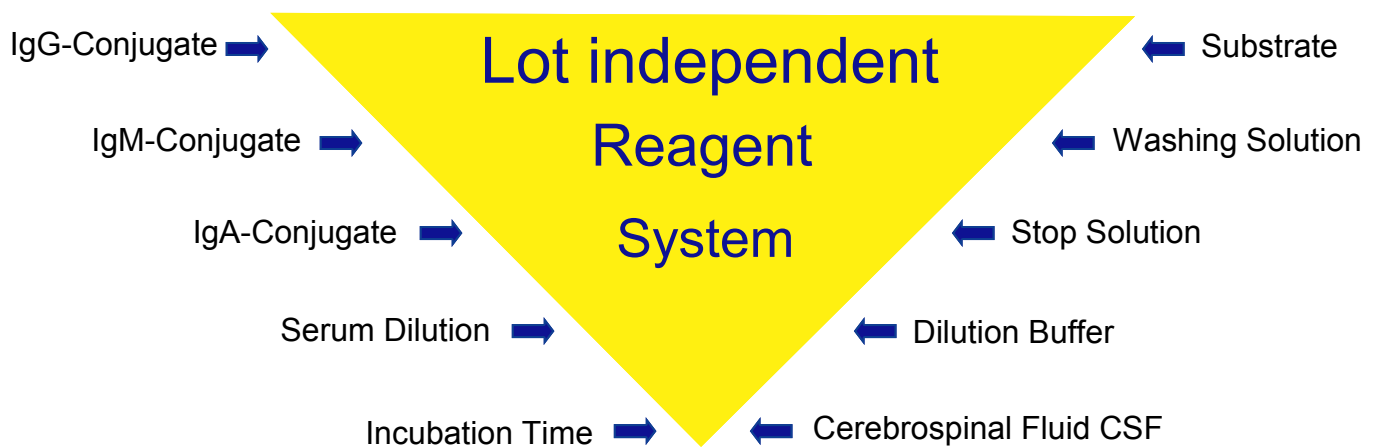


Quelle: www.fotolia.com

# ELISA Range



## VIROTECH Diagnostics GmbH



# VIROTECH Diagnostics ELISA Product Range at a Glance

The VIROTECH Diagnostics ELISA product range consists of > 40 CE marked ELISA test systems for qualitative, semiquantitative or quantitative detection of the most important infectious diseases serology parameters. They are intended for the detection of specific IgG, IgM or IgA antibodies in human serum.

The following parameters are available for various IgX-classes:

## ELISA Product Panel

### Bacteria

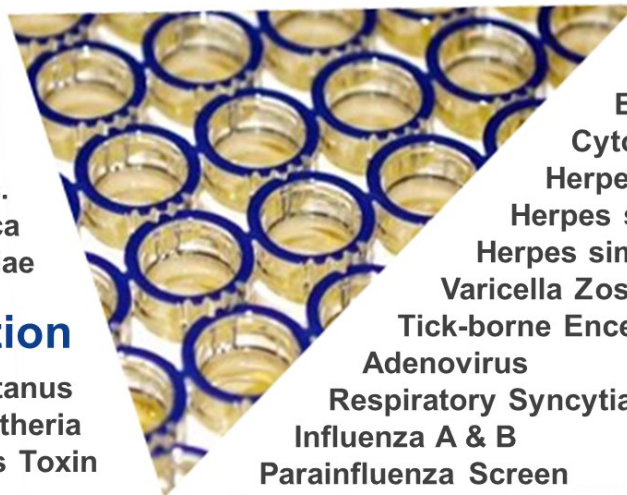
Borrelia Europe  
Bordetella pertussis  
Helicobacter pylori  
Brucella spec.  
Yersinia enterocolitica  
Mycoplasma pneumoniae

### Vaccination

Tetanus  
Diphtheria  
Pertussis Toxin

### Fungi

Candida albicans



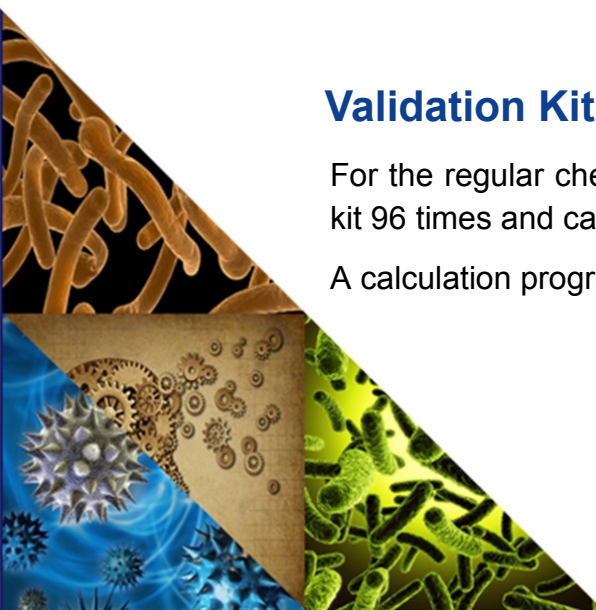
### Viruses

Measles Virus  
Mumps Virus  
Epstein-Barr Virus  
Cytomegalo Virus  
Herpes simplex Virus 1  
Herpes simplex Virus 2  
Herpes simplex Virus Screen  
Varicella Zoster Virus  
Tick-borne Encephalitis Virus  
Adenovirus  
Respiratory Syncytial Virus  
Influenza A & B  
Parainfluenza Screen  
Enterovirus

## Validation Kit (plus Pipetting Control)

For the regular check of your ELISA processor— simply test the control of the kit 96 times and calculate the CV to determine accurate pipetting.

A calculation program is available.



# Diagnostic with System

The VIROTECH Diagnostic System offers great flexibility due to the fact that serum dilution and washing buffer, substrate, citrate stopping solution and conjugate parameters can be used on any of the VIROTECH Diagnostics ELISAs (they are independent from lot).

## All tests have the following characteristics

### ▼ Identical

- Lot independent reagents
- User friendly protocol
- Interpretation via ready to use cut off controls
- Incubation time (30' – 30' – 30' min)
- Microtiter plates with single breakable wells (96 wells)
- Borderline ranges 9VE – 11VE<sup>1</sup>

### ▼ Ready to use

- Controls
- Conjugates
- Substrate

### ▼ Well defined by colour code

- Conjugates
- Controls



### General package contents

- ▼ Dilution buffer, washing solution
- ▼ Substrate solution, stopping solution
- ▼ Test protocol sheet

### Additional quantitative ELISA test kits

- ▼ Controls and standards to prepare a standard curve

### Additional semiquantitative ELISA test kits

- ▼ Controls: Negative, Cut off, Positive, IgG, IgM, IgA referring to the test format
- ▼ Anti-human Conjugates IgG, IgM, IgA referring to the test format
- ▼ Veterinary test kits → see separate flyer

**All controls are available as separate control sets!**

# Cerebrospinal (CSF) Diagnostics

We are offering a wide range of CSF diagnostics, for measurement of specific antibodies in serum and CSF with our Infectious Disease ELISAs in the same procedure and with the same reagents. Thanks to long term collaboration with CSF specialists we have been able to undertake broad evaluation with more than 100 CSF-Sera-pairs from a very wide range of neurological clinical pictures.

Using a curve created with 4 standards or a previously established standard curve allows measurement of the ratio of CSF and serum antibodies required for calculation of the antibody index. The antibody index estimation is performed using the Reiber method (Reiber *et al.* 2001).

## Advantages of the VIROTECH CSF Diagnosis

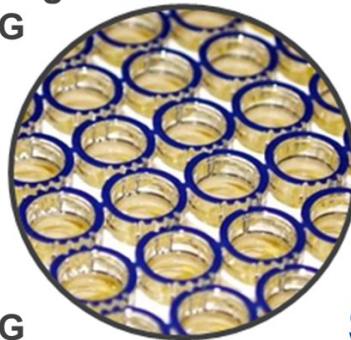
- ▼ Standard curve using 4 standards or fixed standard curve
- ▼ Parallel processing of CSF and serum in the VIROTECH System
- ▼ User friendly evaluation software (S/ELISALIQUOR)
- ▼ High quality demonstrated in external proficiency tests

## CSF Panel

Same Product - same procedure

### ELISA

Borrelia IgG/IgM  
CMV IgG  
EBV IgG  
TBE IgG / IgM  
HSV IgG  
Influenza B IgG  
Measles IgG / IgM  
Mumps IgG  
Rubella IgG  
VZV IgA / IgG / IgM



### AI-Controls

Borrelia  
EBV  
HSV  
Measles  
Rubella  
VZV  
TBE

### Software

AI Calculation (Excel)

## Antibody-Index-Control

- ▼ Check of **accuracy and precision** of your AI<sup>4</sup> determination
- ▼ **Quality control** in your daily CSF routine diagnostic
- ▼ CSF/serum control pair for the normal range (AI <1,5)
- ▼ CSF/serum control pair for the pathologic range (AI >1,5)

# Advantages of the VIROTECH Diagnostics ELISAs

## Borrelia afzelii + VlsE IgG

- ▼ PKo strain (European *B. afzelii* strain), *B. garinii* strain PBr and *B. burgdorferi* strain ZS7
- ▼ Increased sensitivity in early Lyme-Borreliosis for IgG → *in vivo* expressed VlsE antigen
- ▼ Borrelia Europe LINE and Borrelia in vivo LINE available plus CSF tool

## Borrelia afzelii IgM

- ▼ PKo strain (European *B. afzelii* strain), *B. garinii* strain PBr and *B. burgdorferi* strain ZS7
- ▼ High sensitivity → strongly OspC expressing *Borrelia afzelii* strain PKo
- ▼ Borrelia Europe LINE and Borrelia in vivo LINE available plus CSF tool

## Diphtheria & Tetanus & Pertussis Toxin

- ▼ Check vaccination status and vaccination results → adjusted to WHO standard
- ▼ Quantitative determination in IU/ml (WHO-Standard) via the 4-parameter method possible

## EBV

- ▼ EBV Screen, EBV EA-D, EBV EBNA-1, EBV VCA IgG, EBV VCA IgM gp125
- ▼ Clear differentiation between primary infection and past infection → Diagnostic Factor
- ▼ EBV LINE available; Double cut off strategy for EBNA-1 → reliable differentiation between primary and past infection

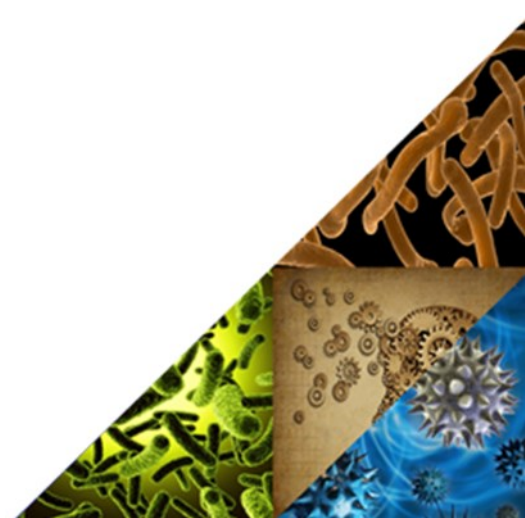
## Influenza A & B

- ▼ Seasonal updated antigen strains corresponding to the WHO vaccine recommendations

<sup>1</sup> except Borrelia veterinary

<sup>3</sup> few exceptions

<sup>4</sup> AI Antibody-Index





# Advantages of the VIROTECH Diagnostics ELISAs

## **Mycoplasma pneumoniae**

- ▼ Detect acute infections → IgG adjustment
- ▼ Specific children cut off
- ▼ Defined antigen fractions due to monospecific sera
- ▼ Additional use of recombinant proteins
- ▼ Mycoplasma pneumoniae LINE available

## **Mycoplasma pn. polyvalent**

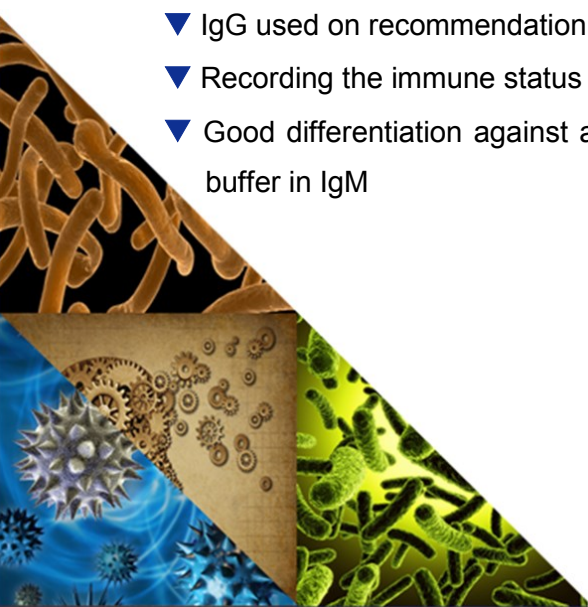
- ▼ IgA + IgM combined conjugate → Efficient diagnostic
- ▼ Detect acute infections in IgG → Cut off adjustment
- ▼ Specific children cut off
- ▼ Use of monospecific sera to define antigen fractions
- ▼ Optimised mix of native and recombinant antigens
- ▼ Mycoplasma pneumoniae LINE available

## **Pertussis Toxin**

- ▼ Quantitative determination in IU/ml (WHO-Standard) via the 4-parameter method possible
- ▼ Adjusted to the WHO standard
- ▼ Differentiation between vaccination antibodies and acute infections
- ▼ B. pertussis + CatACT LINE available → Indication for Parapertussis possible

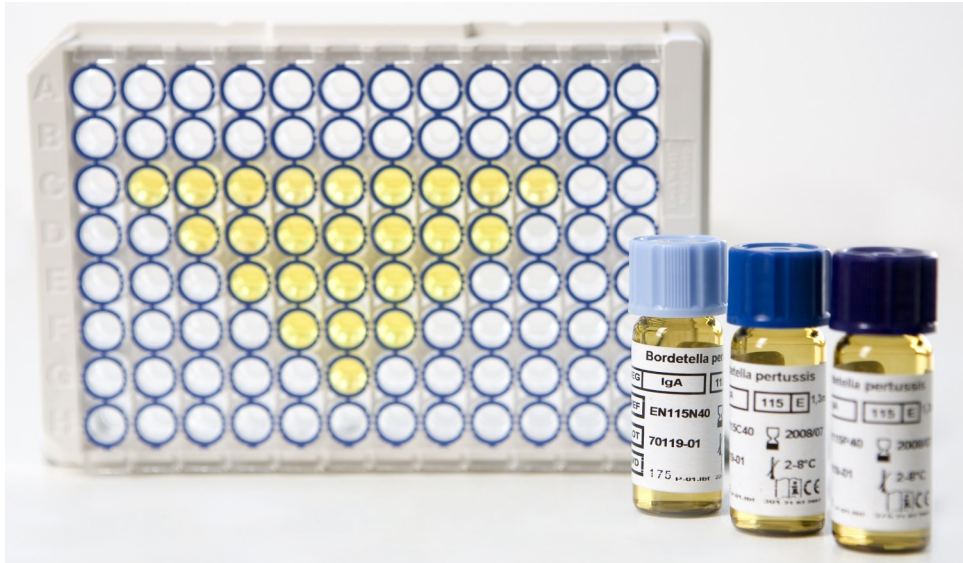
## **VZV**

- ▼ IgG used on recommendation of the Robert Koch Institut (WHO Standard)
- ▼ Recording the immune status
- ▼ Good differentiation against antibody titers due to other herpes family viruses → Specific urea buffer in IgM





# VIROTECH Diagnostics GmbH



## Your Reliable Partner For Infectious Disease Serology

Visit us at our homepage  
[www.virotechdiagnostics.com](http://www.virotechdiagnostics.com)

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