



# Capturing Immune Responses with the Experts

Next Level  
Preclinical Vaccine Testing  
Clinical Diagnostics

# Who we are

## ABOUT VIROCLINICS BIOSCIENCES

Viroclinics Biosciences operates at a global level, being the preferred virology testing laboratory for several of the top-10 Biopharmaceutical companies. As a virology contract research organization, we serve the biopharmaceutical community with our preclinical, clinical diagnostic, research & development and clinical trial logistics services. Our extensive experience with clinical and preclinical studies, including our specialty in respiratory viruses, puts us at the forefront for supporting the development of vaccines, antibodies and antiviral compounds targeting human disease. Extensive investment in Research & Development Services allows for assay innovation and the introduction of new tools to keep analysis up to date with the increasingly demanding criteria for developing new therapeutic and prophylactic candidates.

## GLOBAL REACH

Logistics activities include preparation of sampling kits, on-site sampling handling instruction, courier transport, sample tracking and tracing (e.g. guaranteeing temperature controlled supply chain and online-sample timelines), and management of sample processing labs. Viroclinics Biosciences supports a smooth logistical flow of samples from all over the globe, and works together with sites in Europe, Russia, Ukraine, Asia-Pacific region (Australia, New Zealand, Korea) USA, Canada, Mexico, Central America region (e.g., Guatemala, El Salvador), South America (Brazil, Argentina, Colombia, Peru, Chile) and South Africa.

## QUALITY GUARANTEED

Viroclinics Biosciences has adopted a high quality standard in all operations, testing procedures and reporting. The quality management system is based on NEN-EN-ISO 15189, expanded with elements of GCP and GLP, to comply with regulatory requirements and facilitate regulatory submissions.

# Vaccine Development Solutions

OUR VACCINE DEVELOPMENT SERVICES INCLUDE MAIN VIROLOGY TARGETS, SUCH AS INFLUENZA, POLIO AND RSV

## VIROVACCINE PLATFORM

We specialize in viral targets including Influenza, Polio, RSV and other targets including: Rabies, MERS, Rhino, hMPV, Dengue, Chikungunya and VZV. Our experience is based on extensive testing of VLP, live attenuated, DNA, toxoid, conjugate, inactivated and subunit vaccines. Throughout the years Viroclinics Biosciences established an impressive track record by supporting studies in all phases of vaccine development, with innovative pre-clinical models and customized clinical models. A wide range of assays are available to test vaccine safety, efficacy, immune toxicology and pharmacokinetics data. The latest integrated laboratory techniques allow for high-throughput analysis.

### The ViroVaccine Platform Offers:

- Best in class molecular assays: Quantitative Real Time PCR and Next Gen Sequencing;
- State of the art immunological assays, including antibody and cell mediated immunity assays (ELISPOT, flow cytometry);
- High quality serology. Including haemagglutination inhibition and microneutralization assays;
- Novel research techniques including the in-house developed Virospot™ neutralization assay platform, a novel tool for antigenic characterization of viruses and serology.



INNOVATIVE ASSAYS CAN SPEED UP  
THE VACCINE DEVELOPMENT PROCESS  
CONSIDERABLY, WHICH SUPPORTS  
SWIFT MARKET DELIVERY

Customized assays and protocol development are integrated allowing standardization and validation procedures to support routine application in a clinical trial setting:

- Flow cytometry, ELISPOT and Biospot equipment are in place to assess cell-mediated immunity, antibody dependent cell-mediated cytotoxicity, viral plaque counts, size and growth kinetics;
- Neutralization assays are equipped with multiple read outs to safeguard virus detection in clinical samples;
- Genotyping of virus isolates has been optimized to such a level that high quality gene sequences are obtained directly on patient materials with low viral load;
- High resolution viral plaque assays enable studies on inhibition of both single and multiple infection/ replication cycles. With state of the art innovative research methods and technologies, Viroclinics Biosciences provides high quality data to support vaccine development.

**WITH THE VIROVACCINE PLATFORM YOU ARE ASSURED  
OF FASTER, MORE EFFICIENT AND INNOVATIVE VACCINE  
DEVELOPMENT, SUPPORTING A SWIFT MARKET DELIVERY**

# Our Track Record

## OUR TRACK RECORD

Within the last 2 years we processed

**80,000**  
Samples



## OUR TRACK RECORD

**500**  
Studies



## GLOBAL OPERATIONS

Presence on

**ALL**

Continents



## OUR TRACK RECORD

**100%**  
On Time  
Project Delivery



## OUR PERFORMANCE

Within the last 2 years we processed

**90,000**  
Multiple Primary  
Virology Assays

## OUR CONTRIBUTION TO SCIENCE

More than **40**  
Publications in peer-  
reviewed journals



## OUR PERFORMANCE

Within the last 2 years we processed

**10,000**  
Genotypic Assays



## OUR PERFORMANCE

Within the last 2 years we processed

**15,000**  
Phenotypic Assays





Learn more about Viroclinics Biosciences contributions to vaccine quality,  
safety and efficacy: [www.viroclinics.com/wv2018](http://www.viroclinics.com/wv2018)



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*knows your target*