

Tropical Panel

Innovation and accuracy
to aid in the diagnosis and monitoring
of emerging and tropical infections

EMERGING AND TROPICAL INFECTIONS

In recent years, as a result of climate change, population growth, large-scale migration, and increased international travel and trade to tropical and subtropical regions, EU countries have seen the spread of emerging and tropical infections. These infections are common in tropical and subtropical regions where the warm and humid climate supports the growth of vectors such as mosquitoes, flies, and other insects that transmit diseases.

Vector-borne diseases account for more than 17% of all infectious diseases, causing more than 700,000 deaths annually. They may be caused by parasites, bacteria, or viruses (WHO, 2020). Vector-borne diseases represent a potential epidemiological risk due to the recent increase in cases, complications, and severity.

It is important to support clinicians with laboratory methods to make the differential diagnosis, start appropriate treatment, and prevent associated complications.

Laboratory testing is critical for accurate diagnosis, clinical management, and epidemiologic surveillance, including detection, tracking, and control of outbreaks. In this context, molecular tests represent the best approach to ensure accurate and fast diagnosis of these infections.

The Real-Time PCR kits from the Clonit Tropical Panel allow the identification and quantification of the main emerging tropical pathogens under health surveillance in Europe and worldwide

Quantification

A four positive controls calibration curve allows the quantification of the RNA for WNV, Zika, Chikungunya, Usutu, Leishmaniae and Monkeypox kits

Differentiation

The **quany** WNV kit allows the detection & quantification of WNV alongside discrimination from closely related Usutu virus, and the **Malaria Panel kit** allows the identification of 4 different Plasmodium species

Serotyping

The **Dengue Serotyping Virus kit** can discriminate the four serotypes: DENV-1, DENV-2, DENV-3 and DENV-4

Tropical Panel

Molecular assays based on Real-Time PCR for the identification and quantification of emerging & tropical pathogens

KEY FEATURES

- **Starting samples:** plasma, serum, saliva or urine depending on the protocol
- **4 points standard for quantification included** (10^2 cps/ μ L - 10^5 cps/ μ L)
- **Manual Extraction with** QIAmp Viral RNA Mini Kit (QIAGEN)
- **Automatic Extraction with** EZ1 Advanced XL (Qiagen) and QIASymphony SP/AS (only for RT-03, RT-04, RT-20)
- **Easy workflow validated with** Applied Biosystems 7500 Fast (ThermoFisher SCIENTIFIC), Rotor-Gene Q MDx (RG-Q MDx - QIAGEN), CFX96 Real-Time PCR Detection System (Bio-Rad), LightCycler[®] 480 Real-Time PCR System (Roche)
- **Most of the Tropical Panel kits share the same thermal profile**
- **CE-IVD**

INFORMATION FOR ORDERS

DESCRIPTION	REF.	REGULATORY	TESTS
quany WNV	RT-04	CE-IVD	48
quany Usutu	RT-20	CE-IVD	48
quany Chikungunya	RT-05	CE-IVD	48
quany Zika	RT-40	CE-IVD	48
Dengue Serotyping	RT-03	CE-IVD	48
Malaria Panel	RT-61	CE-IVD	48
Malaria Screening	RT-66	CE-IVD	48
Leishmania spp	RT-63	CE-IVD	48
quany Leishmania	RT-63q	CE-IVD	48
quany ZEBOV	RT-35	RUO	48
quany Monkeypox	RT-103	RUO	48