

Novaplex™ Vector-borne Disease Assays*

Test for the presence of pathogens carried by vectors, such as mosquitoes and ticks



VECTOR-BORNE DISEASES

HIGH MULTIPLEX REAL-TIME PCR ASSAYS

Mosquitoes, ticks, and fleas are all vectors that spread pathogens, and can transmit infections by bite.

Tick-borne diseases are transmitted through bites from ticks that are infected with viruses, bacteria, or parasites. Some common tick-borne infections include Lyme disease, anaplasmosis, ehrlichiosis, babesiosis, powassan, Rocky Mountain spotted Fever, and Tularemia, with symptoms such as fever, chills, aches, and rashes.

Malaria is a serious and sometimes fatal disease caused by a parasite that commonly infects a certain type of mosquito that feeds on humans, and symptoms can include high fevers, shaking chills, and flu-like illness.

Tropical fevers are often transmitted by insect bites and are especially prevalent in tropical and subtropical regions. Dengue, Chikungunya, Zika, and West Nile viruses can elicit symptoms such as fever, chills, headache, myalgia, and transient skin rash.

KEY FEATURES

Broad coverage of vector-borne pathogens

- Detection of 18 different vector-borne pathogens in 3 assays
- 4 hours TAT (from extraction to results)

Automated system

- Provides a convenient work flow through a streamlined automation system
- Minimizes contamination and human error

SAMPLE TYPES

- Whole Blood
- Tick
- Tissue (biopsies, puncture) and CSF samples
- Semen

One Tube	Novaplex™ Tick-borne Disease Assay	Novaplex™ Malaria Assay	Novaplex™ Tropical Fever Virus Assay
Number of Targets	9	5	4

*Novaplex™ Assays are For Research Use Only. Not for Use in Diagnostic Procedures.



ANALYTES

Novaplex™ Malaria Assay*	Novaplex™ Tick-borne Disease Assay*	Novaplex™ Tropical Fever Virus Assay*
<ul style="list-style-type: none"> • <i>Plasmodium vivax</i> • <i>Plasmodium ovale</i> • <i>Plasmodium falciparum</i> • <i>Plasmodium malariae</i> • <i>Plasmodium knowlesi</i> 	<ul style="list-style-type: none"> • <i>Borrelia mayonii</i> • <i>Borrelia burgdorferi sensu stricto</i> • <i>Babesia duncani</i> • <i>Babesia microti</i> • <i>Borrelia miyamotoi</i> • <i>Rickettsia spp.</i> • <i>Anaplasma phagocytophilum</i> • <i>Ehrlichia ewingii</i> • <i>Ehrlichia chaffensis</i> 	<ul style="list-style-type: none"> • Dengue virus • Chikungunya virus • Zika virus • West Nile virus

ORDERING INFORMATION

Assay	Volume (rxns)	Catalog No.
Novaplex™ Malaria Assay*	–	To be released
Novaplex™ Tick-borne Disease Assay*	124	R-TD9900W
Novaplex™ Tropical Fever Virus Assay*	124	R-TF10208W



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WORKFLOW

FOR EXTRACTION

Seegene Launcher
Operation Software



Seegene NIMBUS
Catalog No. 65415-03

Seegene STARlet
Catalog No. 67930-03

REAL-TIME PCR



Bio-Rad
CFX96™ Dx/Touch/Opus™
Purchase From Bio-Rad[^]

AUTOMATED DATA ANALYSIS



Seegene Viewer Software
Automated Data Analysis

** Extraction methods are not limited to the Seegene NIMBUS and Seegene STARlet.

[^] The CFX96™ Dx/Touch/Opus™ instrument is to be purchased directly from Bio-Rad. Seegene does not distribute the instrument in the U.S. Please contact Bio-Rad for ordering information.