

*bioPerfectus technologies*

BIOPERFECTUS  
**PRODUCT BOOKLET**

International Sales & Marketing Division

*bioPerfectus technologies*



Connect with us today

**Bioperfectus**

A molecular diagnostic solution provider specialized  
in infectious diseases ever since 2010.

2022/06

## Vector-Borne Diseases

Vector-borne diseases are human illnesses caused by parasites, viruses and bacteria that are transmitted by vectors. Every year there are more than 700,000 deaths from diseases such as malaria, dengue, zika, yellow fever, chikungunya, schistosomiasis, human African trypanosomiasis, leishmaniasis, Chagas disease, Japanese encephalitis and onchocerciasis.

## Malaria Solution

Malaria is caused by single-celled microorganisms of the Plasmodium group. The disease is most commonly spread by an infected female Anopheles mosquito. The mosquito bite introduces the parasites from the mosquito's saliva into a person's blood. The parasites travel to the liver where they mature and reproduce. Five species of Plasmodium can infect and be spread by humans. Most deaths are caused by *P. falciparum*, whereas *P. vivax*, *P. ovale*, and *P. malariae* generally cause a milder form of malaria. The species *P. knowlesi* rarely causes disease in humans. Malaria is typically diagnosed by the microscopic examination of blood using blood films, or with antigen-based rapid diagnostic tests. Methods that use the polymerase chain reaction to detect the parasite's DNA have been developed, but are not widely used in areas where malaria is common due to their cost and complexity.

## Malaria Pf (HRP2) Ag Rapid Test Kit



The Malaria Pf (HRP2) Ag Rapid Test Kit is intended for the qualitative testing of histidine-rich protein 2 (HRP2) of *Plasmodium falciparum* in human whole blood from individuals who have signs and symptoms consistent with malaria infection.

### Advantages

- Fast results within 15 minutes
- Easy to use: 3 steps to finish the test
- Quality control: ensure the result is reliable
- Shelf life: 24 months

### Parameters

Target region	HRP2 of <i>Plasmodium falciparum</i>
Clinical Sensitivity	99.67%
Clinical Specificity	99.61%
Storage temperature	4°C-30°C
Transportation temperature	-20°C~45°C
Sample Type	Human whole blood

### Packaging

CATALOG	PRODUCT	PACKAGE
SC20102W-20T	Malaria Pf (HRP2) Ag Rapid Test Kit	20 Tests/Kit
SC20102W-25T		25 Tests/Kit
SC20102W-50T		50 Tests/Kit

- Lancet and alcohol swab is provided as optional components.

### Certificate

CE

## Malaria Pf (HRP2/pLDH) Ag Rapid Test Kit



The Malaria Pf (HRP2/pLDH) Ag Rapid Test Kit is intended for the qualitative testing of histidine-rich protein 2 (HRP2) and plasmodium lactate dehydrogenase (pLDH) of *Plasmodium falciparum* in human whole blood from individuals who have signs and symptoms consistent with malaria infection.

### Advantages

- Fast results within 15 minutes
- Easy to use: 3 steps to finish the test
- Quality control: ensure the result is reliable
- Shelf life: 24 months

### Parameters

Target region	HRP2/pLDH of <i>Plasmodium falciparum</i>
Clinical Sensitivity	98.96%
Clinical Specificity	100.00%
Storage temperature	4°C-30°C
Transportation temperature	-20°C~45°C
Sample Type	Human whole blood

### Packaging

CATALOG	PRODUCT	PACKAGE
SC20204W-20T	Malaria Pf (HRP2/pLDH) Ag Rapid Test Kit	20 Tests/Kit
SC20204W-25T		25 Tests/Kit
SC20204W-50T		50 Tests/Kit

- Lancet and alcohol swab is provided as optional components.

### Certificate

CE

## Malaria Pf/Pv (HRP2/pLDH) Ag Rapid Test Kit



The Malaria Pf/Pv (HRP2/pLDH) Ag Rapid Test Kit is intended for the qualitative testing of histidine-rich protein 2 (HRP2) of *Plasmodium falciparum* and plasmodium lactate dehydrogenase (pLDH) of *Plasmodium vivax* in human whole blood from individuals who have signs and symptoms consistent with malaria infection.

### Advantages

- Fast results within 15 minutes
- Easy to use: 3 steps to finish the test
- Quality control: ensure the result is reliable
- Shelf life: 24 months

### Parameters

Target region	HRP2 of Pf, and pLDH of Pv
Clinical Sensitivity	99.34% (Pf), 87.67% (Pv)
Clinical Specificity	99.87% (Pf), 98.31% (Pv)
Storage temperature	4°C-30°C
Transportation temperature	-20°C~45°C
Sample Type	Human whole blood

### Packaging

CATALOG	PRODUCT	PACKAGE
SC20203W-20T	Malaria Pf/Pv (HRP2/pLDH) Ag Rapid Test Kit	20 Tests/Kit
SC20203W-25T		25 Tests/Kit
SC20203W-50T		50 Tests/Kit

- Lancet and alcohol swab is provided as optional components.

### Certificate

CE

## Malaria Pf/Pan (HRP2/pLDH) Ag Rapid Test Kit



The Malaria Pf/Pan (HRP2/pLDH) Ag Rapid Test Kit is intended for the qualitative testing of histidine-rich protein 2 (HRP2) of *Plasmodium falciparum* (Pf) and plasmodium lactate dehydrogenase (pLDH) of *Plasmodium falciparum* (Pf), *Plasmodium vivax* (Pv), *Plasmodium ovale* (Po) and *Plasmodium malariae* (Pm) in human whole blood from individuals who have signs and symptoms consistent with malaria infection.

Pan means the combination of *Plasmodium falciparum*, *Plasmodium vivax*, *Plasmodium ovale* and *Plasmodium malariae*.

### Advantages

- Fast results within 15 minutes
- Easy to use: 3 steps to finish the test
- Quality control: ensure the result is reliable
- Shelf life: 24 months

### Parameters

Target region	HRP2 of Pf, and pLDH of Pan
Clinical Sensitivity	99.67% (Pf), 99.38% (Pan)
Clinical Specificity	99.60% (Pf), 99.60% (Pan)
Storage temperature	4°C-30°C
Transportation temperature	-20°C~45°C
Sample Type	Human whole blood

### Packaging

CATALOG	PRODUCT	PACKAGE
SC20202W-20T	Malaria Pf/Pan (HRP2/pLDH) Ag Rapid Test Kit	20 Tests/Kit
SC20202W-25T		25 Tests/Kit
SC20202W-50T		50 Tests/Kit

- Lancet and alcohol swab is provided as optional components.

### Certificate

CE

## Plasmodium DNA Real Time PCR Kit



Plasmodium, a unicellular eukaryote, is the pathogen that causes malaria. It is a unicellular parasitic protozoan of the genus Plasmodium in the family Plasmodiidae. There are five common plasmodia: Plasmodium vivax, Plasmodium falciparum, Plasmodium malariae, Plasmodium knowlesi, and Plasmodium ovale. Among them, Plasmodium knowlesi has been identified in recent years and is recognized as the fifth plasmodium that infects humans.

The Bioperfectus Technologies Plasmodium Real Time PCR Kit is an in vitro diagnostic test, based on real-time PCR technology, for the detection of Plasmodium (Plasmodium vivax, Plasmodium falciparum, Plasmodium malariae, Plasmodium knowlesi, and Plasmodium ovale) DNA. Samples can be obtained from whole blood.

### Advantages

- Detect Plasmodium with specific DNA
- Internal control ensures the whole process reliably Better performance makes the result
- More efficient: 96 tests in 61 minutes (on an instrument)
- Suitable for more mainstream instrument

### Parameters

Target region	Plasmodium specific DNA
Limit of Detection	1000 copies/mL
Analytical Specificity	no cross-reactivity with other common pathogens
Sample Input Volume	5µL
Sample Type	DNA in clinical specimens, including whole blood

### Packaging

CATALOG	PRODUCT	PACKAGE
JW20102NW-25T JW20102NW-50T	Plasmodium DNA Real Time PCR Kit	25 Tests/Kit 50 Tests/Kit

### Certificate

CE

## Vector-Borne Diseases

Vector-borne diseases are human illnesses caused by parasites, viruses and bacteria that are transmitted by vectors. Every year there are more than 700,000 deaths from diseases such as malaria, dengue, zika, yellow fever, chikungunya, schistosomiasis, human African trypanosomiasis, leishmaniasis, Chagas disease, Japanese encephalitis and onchocerciasis.

## Dengue Solution

The dengue infection can be caused by any one of the serotypes of dengue viruses (DENV 1 to 4) which are generally carried by the female mosquito species *Aedes aegypti*. More than 3.9 billion people in over 129 countries are at risk of contracting dengue, with an estimated 96 million symptomatic cases and an estimated 40,000 deaths every year. The mosquito-borne virus can cause the onset of dengue fever in an individual which can develop into the more severe form of dengue hemorrhagic fever that causes plasma leakage. This fever can lead to a shock syndrome which can cause death in children and aged patients.



## Dengue NS1 Ag Rapid Test Kit



The Dengue NS1 Ag Rapid Test Kit is intended for the qualitative testing of Dengue NS1 antigen in human serum or plasma samples.

### Advantages

- Fast results within 15 minutes
- Easy to use: 3 steps to finish the test
- Quality control: ensure the result is reliable
- Shelf life: 18 months

### Parameters

Target region	Dengue NS1 Ag
Clinical Sensitivity	97.22%
Clinical Specificity	99.35%
Storage temperature	4°C-30°C
Transportation temperature	-20°C~45°C
Sample Type	Human serum and plasma

### Packaging

CATALOG	PRODUCT	PACKAGE
SC20101W-20T	Dengue NS1 Ag Rapid Test Kit	20 Tests/Kit
SC20101W-25T		25 Tests/Kit
SC20101W-50T		50 Tests/Kit

### Certificate

CE

## Dengue IgG/IgM Rapid Test Kit



The Dengue IgG/IgM Rapid Test Kit is intended for the qualitative testing of Dengue IgG and IgM antibodies in human serum or plasma samples.

### Advantages

- Fast results within 15 minutes
- Easy to use: 3 steps to finish the test
- Quality control: ensure the result is reliable
- Shelf life: 18 months

### Parameters

Target region	Dengue IgG and IgM
Clinical Sensitivity	96.54% (IgM), 87.29% (IgG), 97.34% (IgG&IgM)
Clinical Specificity	98.82% (IgM) , 97.45% (IgG), 98.13% (IgG&IgM)
Storage temperature	4°C-30°C
Transportation temperature	-20°C~45°C
Sample Type	Human serum and plasma

### Packaging

CATALOG	PRODUCT	PACKAGE
SC20201W-20T	Dengue IgG/IgM Rapid Test Kit	20 Tests/Kit
SC20201W-25T		25 Tests/Kit
SC20201W-50T		50 Tests/Kit

### Certificate

CE

## Dengue (NS1 Ag+IgG/IgM) DUO Rapid Test Kit



The Dengue (NS1 Ag+IgG/IgM) DUO Rapid Test Kit is intended for the qualitative testing of Dengue NS1 antigen, IgG and IgM antibodies in human serum or plasma samples.

### Advantages

- Fast results within 15 minutes
- Easy to use: 3 steps to finish the test
- Quality control: ensure the result is reliable
- Shelf life: 18 months

### Parameters

Target region	Dengue NS1 Ag, IgG&IgM
Clinical Sensitivity	96.09% (NS1 Ag), 96.37% (IgM&IgG), 96.90% (NS1 Ag+IgG&IgM)
Clinical Specificity	99.37% (NS1 Ag) , 98.45% (IgM&IgG), 99.05% (NS1 Ag+IgG&IgM)
Storage temperature	4°C-30°C
Transportation temperature	-20°C~45°C
Sample Type	Human serum and plasma

### Packaging

CATALOG	PRODUCT	PACKAGE
SC20301W-20T	Dengue (NS1 Ag+IgG/IgM) DUO Rapid Test Kit	20 Tests/Kit
SC20301W-25T		25 Tests/Kit
SC20301W-50T		50 Tests/Kit

### Certificate

CE

## Dengue Virus Type 1 & Type 2 Real Time PCR Kit



The Dengue Virus Type 1 & Type 2 Real Time PCR Kit is intended for the in vitro qualitative detection of Dengue virus type 1 and type 2 in clinical specimens, including human whole blood, serum, plasma, and urine from individuals meeting Dengue virus type 1 and type 2 clinical and/or epidemiological criteria.

### Advantages

- Multiplex real-time PCR detect 2 types of Dengue Virus
- Internal control ensures the whole process reliability
- Better performance makes the result more accurate
- More efficient: 96 tests in 79 minutes (on an instrument)
- Suitable for more mainstream instrument

### Parameters

Target region	Dengue virus type 1, Dengue virus type 2
Limit of Detection	5 copies/reaction
Sample Input Volume	5µL
Sample Type	Human whole blood, serum, plasma, and urine

### Packaging

CATALOG	PRODUCT	PACKAGE
JC30202NW-25T	Dengue Virus Type 1 & Type 2 Real Time PCR Kit	25 Tests/Kit
JC30202NW-50T		50 Tests/Kit

### Certificate

CE

## Dengue Virus Type 3 & Type 4 Real Time PCR Kit



The Dengue Virus Type 3 & Type 4 Real Time PCR Kit is intended for the in vitro qualitative detection of Dengue virus type 3 and type 4 in clinical specimens, including human whole blood, serum, plasma, and urine, from individuals meeting Dengue virus type 3 and type 4 clinical and/or epidemiological criteria.

### Advantages

- Multiplex real-time PCR detect 2 types of Dengue Virus
- Internal control ensures the whole process reliability
- Better performance makes the result more accurate
- More efficient: 96 tests in 79 minutes (on an instrument)
- Suitable for more mainstream instrument

### Parameters

Target region	Dengue virus type 3, Dengue virus type 4
Limit of Detection	5 copies/reaction
Sample Input Volume	5µL
Sample Type	Human whole blood, serum, plasma, and urine

### Packaging

CATALOG	PRODUCT	PACKAGE
JC30203NW-25T	Dengue Virus Type 3 & Type 4 Real Time PCR Kit	25 Tests/Kit
JC30203NW-50T		50 Tests/Kit

### Certificate

CE

## Zika Virus/Dengue Virus/Chikungunya Virus Real Time PCR Kit



Zika Virus/Dengue Virus/Chikungunya Virus Real Time PCR Kit is intended for the in vitro qualitative detection of RNA from dengue, chikungunya and Zika viruses in human serum, whole blood (EDTA), cerebrospinal fluid (CSF) and for the detection of Zika virus RNA in human urine, and amniotic fluid.

This kit will help to diagnose the presence of dengue, chikungunya and Zika viruses using a single sample.

### Advantages

- Multiplex real-time PCR detect 3 vector-borne viruses
- Internal control ensures the whole process reliability
- Better performance makes the result more accurate
- More efficient: 96 tests in 79 minutes (on an instrument)
- Suitable for more mainstream instrument

### Parameters

Target region	Dengue virus, Zika virus, Chikungunya virus
Limit of Detection	5 copies/reaction
Sample Input Volume	5µL
Sample Type	Human serum, whole blood (EDTA), cerebrospinal fluid (CSF), urine, and amniotic fluid

### Packaging

CATALOG	PRODUCT	PACKAGE
JC30302NW-25T	Zika Virus/Dengue Virus/Chikungunya Virus Real Time PCR Kit	25 Tests/Kit
JC30302NW-50T		50 Tests/Kit

### Certificate

CE

## Dengue Virus Real Time PCR Kit



Dengue Virus Real Time PCR Kit is an in vitro diagnostic kit based on real-time PCR technology, intended to rapidly detect nucleic acid from Dengue virus in human serum samples. The product is designed for assisting Dengue virus infection diagnosis.

### Advantages

- Detection of Dengue virus, verified with DENV1/2/3/4 serotypes
- Internal control ensures the whole process' s reliability
- Better performance makes the result more accurate
- More efficient: 96 tests in 110 minutes (on an instrument)
- Suitable for more mainstream instrument

### Parameters

PPA	96.74%
NPA	99.15%
Limit of Detection	$1 \times 10^3$ TCID <sub>50</sub> /mL
Sample input volume	5 $\mu$ L
Sample type	Human serum
Storage Temperature	-20 $\pm$ 5 $^{\circ}$ C
Shelf-life	12 months

### Packaging

CATALOG	PRODUCT	PACKAGE
JC30101NW-48T	Dengue Virus Real Time PCR Kit	48 Tests/Kit

### Certificate

CE

## Vector-Borne Diseases

Vector-borne diseases are human illnesses caused by parasites, viruses and bacteria that are transmitted by vectors. Every year there are more than 700,000 deaths from diseases such as malaria, dengue, zika, yellow fever, chikungunya, schistosomiasis, human African trypanosomiasis, leishmaniasis, Chagas disease, Japanese encephalitis and onchocerciasis.

### Zika Solution

Zika is spread mostly by the bite of an infected *Aedes* species mosquito. Zika infection during pregnancy can cause a serious birth defect called microcephaly, which is a sign of incomplete brain development. Zika virus infection is also a trigger of Guillain-Barré syndrome, neuropathy and myelitis, particularly in adults and older children. There is no vaccine or medicine for Zika.



## Zika Virus Real Time PCR Kit



The Zika Virus Real Time PCR Kit is intended for the in vitro qualitative detection of Zika Virus RNA in clinical specimens, including human whole blood, serum, amniotic fluid, urine and cerebro-spinal fluid (CSF) from individuals meeting Zika virus clinical and/or epidemiological criteria. The function of the assay is for the diagnosis or aid for diagnosis. The use of RT-PCR method shortens the testing window, which is conducive to earlier identification and treatment of infection.

### Advantages

- Internal control ensures the whole process reliability
- Better performance makes the result more accurate
- More efficient: 96 tests in 79 minutes (on an instrument)
- Suitable for more mainstream instrument

### Parameters

Target region	Zika virus
Limit of Detection	5 copies/reaction
Sample Input Volume	5µL
Sample Type	Human whole blood, serum, amniotic fluid, urine and cerebrospinal fluid (CSF)

### Packaging

CATALOG	PRODUCT	PACKAGE
JC30106NW-25T JC30106NW-50T	Zika Virus Real Time PCR Kit	25 Tests/Kit 50 Tests/Kit

### Certificate

CE

## Vector-Borne Diseases

Vector-borne diseases are human illnesses caused by parasites, viruses and bacteria that are transmitted by vectors. Every year there are more than 700,000 deaths from diseases such as malaria, dengue, zika, yellow fever, chikungunya, schistosomiasis, human African trypanosomiasis, leishmaniasis, Chagas disease, Japanese encephalitis and onchocerciasis.

## Yellow Fever Solution

The yellow fever virus is found in tropical and subtropical areas of Africa and South America. The virus is spread to people by the bite of an infected mosquito. Yellow fever is a very rare cause of illness in U.S. travelers. Illness ranges from a fever with aches and pains to severe liver disease with bleeding and yellowing skin (jaundice). Yellow fever infection is diagnosed based on laboratory testing, a person's symptoms, and travel history. There is no medicine to treat or cure the infection.

## Yellow Fever Virus Real Time PCR Kit



The Yellow Fever Virus Real Time PCR Kit is intended for the in vitro qualitative detection of Yellow Fever Virus in clinical specimens, including human whole blood, serum, plasma, and urine, from individuals meeting Yellow Fever Virus clinical and/or epidemiological criteria.

### Advantages

- Internal control ensures the whole process reliability
- Better performance makes the result more accurate
- More efficient: 96 tests in 79 minutes (on an instrument)
- Suitable for more mainstream instrument

### Parameters

Target region	Yellow Fever Virus
Limit of Detection	5 copies/reaction
Sample Input Volume	5µL
Sample Type	Human whole blood, serum, plasma, and urine

### Packaging

CATALOG	PRODUCT	PACKAGE
JC40107NW-25T	Yellow Fever Virus Real Time PCR Kit	25 Tests/Kit
JC40107NW-50T		50 Tests/Kit

### Certificate

CE

## DISTRIBUTOR:



HVD Life Science Vertriebs GmbH  
Wurzbachgasse 18, AT-1152 Vienna  
Telephone: +43 1 982 95 26  
Telefax: +43 1 786 36 44  
E-mail: office1@hvdgmbh.com  
www.hvdlifesciences.com



Scan to download RUO Product List

### Can't scan the QR Code?

Send an inquiry email to [info@bioperfectus.com](mailto:info@bioperfectus.com)  
or [marketing\\_global@bioperfectus.com](mailto:marketing_global@bioperfectus.com) to get the file right now!

## JIANGSU BIOPERFECTUS TECHNOLOGIES CO., LTD.

- 📍 2nd floor, Block 10, No.188 Xinjun Ring Road,  
Pujiang High-Tech Park, Caohejing Development Area,  
Shanghai, China.
- 🏭 Bioperfectus Technologies Industrial Park, No. 837 Yaocheng Avenue,  
Taizhou City, Jiangsu Province, 225300, China
- ✉ [info@bioperfectus.com](mailto:info@bioperfectus.com)
- 🌐 [www.bioperfectus.com](http://www.bioperfectus.com)



Follow "Bioperfectus" on