



**COSARA**  
DIAGNOSTICS  
PVT. LTD

# SARAGENE™ Malaria Real-Time PCR Test

## Malaria Real-Time PCR Test Information

The Malaria Real-Time PCR (RT-PCR) test targets a COX3 region of the genome that is conserved in species of Plasmodium: *P. falciparun*, *P. vivax*, *P. ovale*, *P. malariae* and *P. Knowlesi*. The test is optimized for use on DNA extracted from human whole blood samples that are suspected to be infected with malaria.



## Results within two hours

The malaria tests can be performed in less than two hours. The test requires a clean, contamination free environment with a hood, centrifuge, pipettes and RT-PCR machine. The test is compatible with most RT-PCR devices with green and orange channels and it can be customized to work with a myriad dyes and PCR technologies.



## MALARIA RT-PCR KIT

- Compatible with multiple sample types, platforms and sample extractions
- Simple and streamlined workflow
- Includes internal control to verify sample quality
- Includes positive control
- Produces results that are easy to interpret

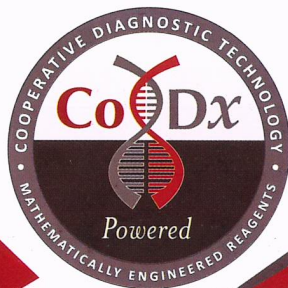
**IVD**



Sarabhai Campus,  
Opp. Ranoli Railway Station,  
Ranoli - 391350, Dist. Vadodara, India.

Sensitive, Fast and Affordable Molecular Diagnostics

[info@cosara.in](mailto:info@cosara.in) | [www.cosara.in](http://www.cosara.in)



# SARAGENE™ Malaria

## Real-Time PCR Test Specifications

### About CoDx™ Technology

The malaria kit is developed using a revolutionary molecular diagnostics technology called CoPrimers™, a technology invented and patented by Co-Diagnostics, Inc (Utah, USA).

CoDx technology is mathematically engineered to enhance the speed, accuracy and cost-effectiveness of RT-PCR. The technology is based on cooperative theory, a mathematical model developed by Brent Satterfield, Ph.D. This model applies advanced algorithms and bioinformatics to optimize design parameters with analyte targets. In comparison with other technologies, the CoPrimers reduce the formation of primer-dimers, increase specificity and increase ability to multiplex. The Journal of Molecular Diagnostics (March 2014) introduced CoPrimers as a “new class of primer technology that greatly reduces primer-dimer propagation, showing a 2.5 million-fold improvement in reduction of nonspecific amplification.”

Application → Qualitative RT-PCR

Sample type → Venous Whole Blood

Type of detection → Presence or absence of the COX3

Specificity → Plasmodium species including *P. falciparum*, *P. vivax*, *P. ovale*, *P. malariae* and *P. knowlesi*

Gene Marker	Plasmodium species	Limit of Detection (copies/uL)
COX3	<i>P. falciparum</i>	5

Thermal cycler compatibility → Most RT-PCR systems with the following channel compatibilities: Green (FAM) and Orange (CAL Fluor® Red 610)

### Malaria Kit Includes

MM	Master Mix
PC	Positive Control
NC	Negative Control

### Ordering Information

Product Name	Number of Reaction
SARAGENE™ Malaria RT PCR KIT	25 Rxs
	50 Rxs
	100 Rxs

\* DNA Extraction kit and RT PCR machine available on Request

The performance of the Malaria RT-PCR Test has been evaluated for precision, accuracy, sensitivity and specificity for relevant Plasmodium species that cause malaria infections.

Intended Use: For the Detection of Malaria



**COSARA**  
DIAGNOSTICS  
PVT. LTD

Reg. Office :  
Shantisadan, Mirzapur Road,  
Ahmedabad - 380 001, India.

Factory Address : Sarabhai Campus,  
Opp. Ranoli Railway Station,  
Ranoli - 391350, Dist. Vadodara, India.

[www.cosara.in](http://www.cosara.in) | General Inquiries : [info@cosara.in](mailto:info@cosara.in)