



MASTISOPLEX[®]

Malaria PfPv



- Detection of *Plasmodium falciparum* and *Plasmodium vivax*
- Realtime multiplexing using Mediator Displacement Probes
- Sensitive and specific LAMP technology
- Time to result: 45 minutes

MASTISOPLEX® Malaria PfPv

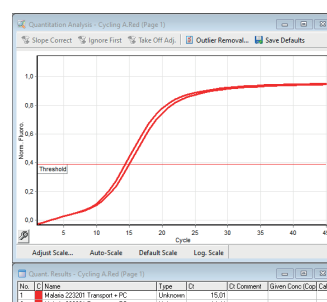
Malaria is caused by the Plasmodium spp. pathogen. The pathogen can persist without symptoms appearing. Since there are many fever-causing pathogens in endemic areas worldwide, it is important to make an accurate diagnosis of which pathogen is responsible for the symptom of fever. **MASTISOPLEX® Malaria PfPv** assay has been adjusted to detect only those Malaria infections that are responsible for the symptomatic fever episodes.

In the **MASTISOPLEX® Malaria PfPv** kit target DNA of *P. falciparum* and *P. vivax* is amplified using loop-mediated isothermal amplification, providing high sensitivity and specificity. Real-time multiplexing of Pf, Pv and internal control is allowed by using novel Mediator Displacement Probes in combination with Universal Reporters.

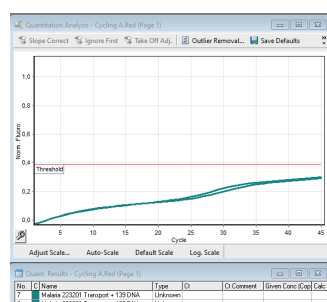
Specifications

Principle	Multiplex RT-LAMP
Sample material	Whole blood
Sensitivity (Pf/Pv)	>95% / >99%
Specificity (Pf/Pv)	>95% / >99%
PPV (Pf/Pv)	96% / >99%
NPV (Pf/Pv)	92% / >99%
Time to result	45 minutes
Storage temperature	Room temperature
Device	Realtime PCR cyclor or programmable heat block, suitable for isothermal nucleic acid amplification and fluorescence detection (FAM, Cy5, ROX), e.g. MASTISOPLEX® MD12 or Qiagen RotorGene
Content	96 tests

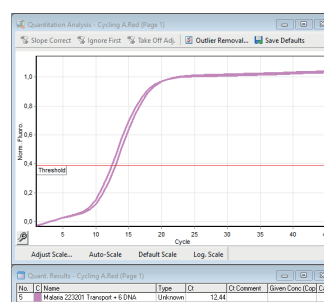
Amplification Curves



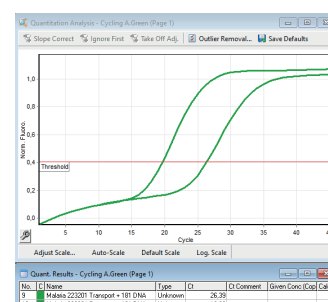
Positive Control



Negative sample



P. falciparum



P. vivax

Ordering information

Order Code	Product	Pack Size
67MALA-2	MASTISOPLEX® Malaria PfPv	96 tests

Literature references

1. T Notomi 1, H Okayama, H Masubuchi, T Yonekawa, K Watanabe, N Amino, T Hase; Loop-mediated Isothermal Amplification of DNA, Nucleic Acids Res. 2000 Jun 15;28(12):E63. doi: 10.1093/nar/28.12.e63.
2. Becherer L, Bakheit M, Frischmann S, Stinco S, Borst N, Zengerle R, von Stetten F; Simplified Real-Time Multiplex Detection of Loop-Mediated Isothermal Amplification Using Novel Mediator Displacement Probes with Universal Reporters. Anal Chem. 2018 Apr 3;90(7):4741-4748. doi: 10.1021/acs.analchem.7b05371. Epub 2018 Mar 14.
3. Hin S, Lopez-Jimena B, Bakheit M, Klein V, Stack S, Fall C, et al. (2021) Fully automated point-of-care differential diagnosis of acute febrile illness. PLoS Negl Trop Dis 15(2): e0009177. <https://doi.org/10.1371/journal.pntd.0009177>

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