

Hidden Danger..



Of Pf HRP2/3 gene deletion...

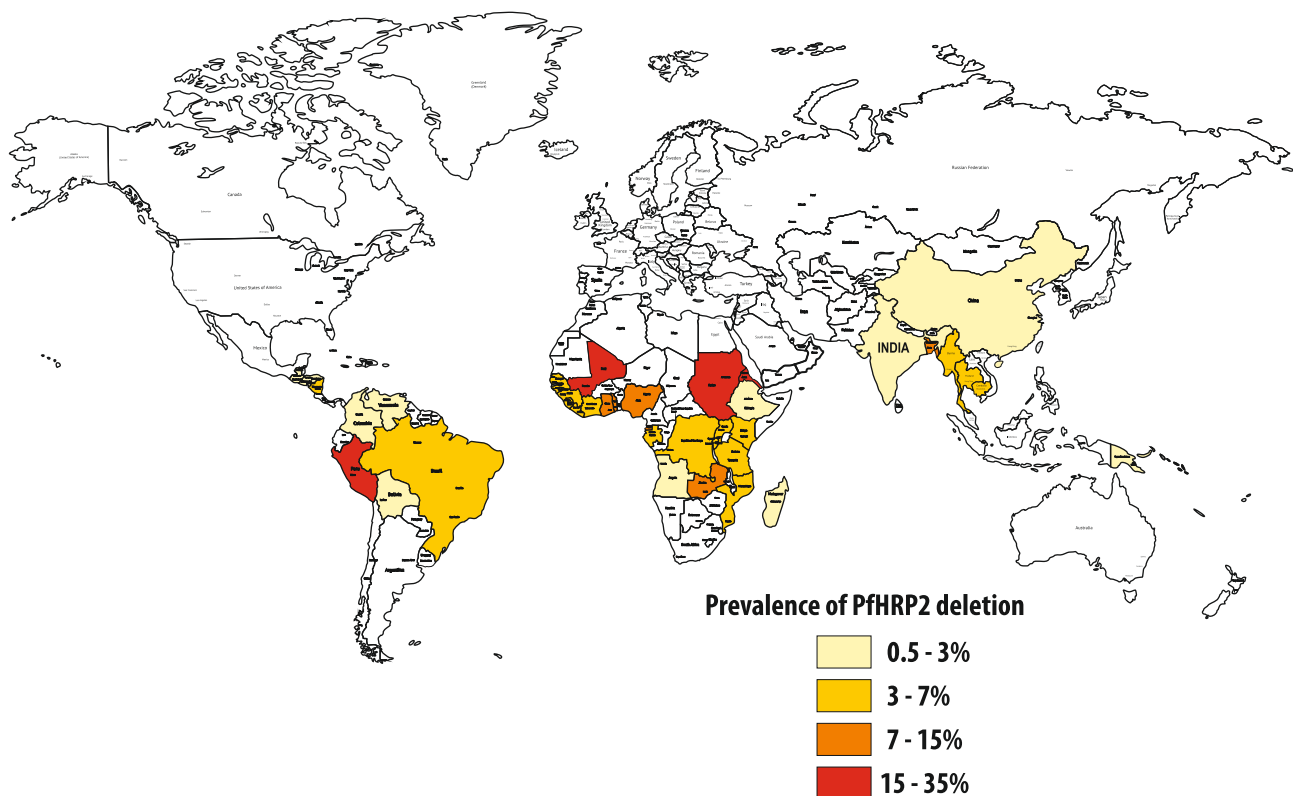
A Critical Challenge for
***P. Falciparum* Diagnosis!**

The emergence of PfHRP2/3 gene deletion mutations in Plasmodium falciparum represents a critical diagnostic challenge.

The rapid spread of mutant parasites lacking the pfHRP2 and pfHRP3 genes has compromised the efficacy of PfHRP2 detection-based Rapid Diagnostic Tests (RDTs), which are among the most convenient and widely used tools for malaria detection.

When these genes are deleted, standard RDTs detecting PfHRP2 produce false-negative results, leading to untreated infections and increased mortality.

This gene deletion phenomenon has been observed in different countries and has now become a global challenge for malaria detection and treatment. The diagram below shows the prevalence rate.



- ▶ **PfHRP 2/3 Gene deletion cases can be detected by Pf pLDH based test.**
- ▶ **For early diagnosis of falciparum infection, Pf HRP 2 is considered as more sensitive analyte compared to Pf pLDH.**
- ▶ **Pf HRP 2 based test is an obvious choice for falciparum diagnosis for early detection, faster treatment and thereby reduce mortality.**
- ▶ **Combined Detection of Pf pLDH along with Pf HRP 2 is the most appropriate test for overcoming the diagnostic challenge of Pf HRP 2/3 gene deletion cases.**

Tulip introduces two RDTs, those can detect the gene deletion cases without compromising the sensitivity...

DUOCHECK Pf™ - Standalone Pf RDT for differential detection of Pf HRP2 and Pf pLDH

CombiVIEW™ Pv/Pf - Pf and Pv RDT for detection of Pf HRP2 + Pf pLDH and Pv pLDH,

Standalone *P. falciparum* (Pf HRP2 and Pf pLDH) detection RDT.

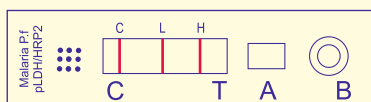
DUOCHECK Pf™

Rapid Test For Malaria P. f. HRP-2 and P. f. pLDH Antigen

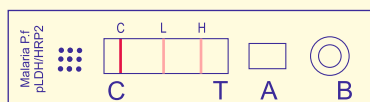
- Specific detection of Pf HRP2 gene deleted cases through specific Pf pLDH detection
- Differential detection of both Pf HRP 2 and Pf pLDH
- Ensure high sensitive detection through Pf HRP 2 and also Pf pLDH to detect Pf HRP 2 gene deletion cases
- Sensitivity & Specificity: > 98%
- Easy to use, 20 minutes test, suitable for point of care testing
- Storage: 4°C to 40°C



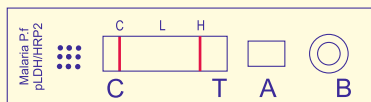
Result Interpretation



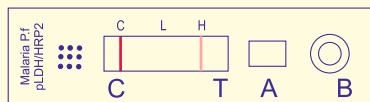
POSITIVE for HRP-2 and pLDH of P.f malaria



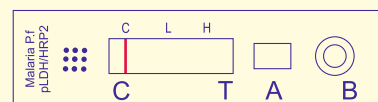
POSITIVE for HRP-2 of P.f Malaria



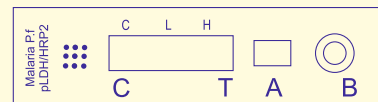
POSITIVE for pLDH of P.f Malaria



INVALID Result



NEGATIVE for P.f malaria



INVALID Result

Bivalent *P. falciparum* (Pf HRP2 + Pf pLDH) and *P. Vivax* (Pv pLDH) detection RDT.

CombiVIEW™

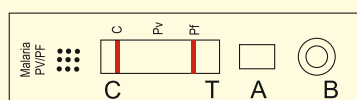
Pv/Pf

Rapid Test for Malaria Pv pLDH / P.f pLDH+P.f HRP2

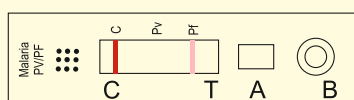
- Detects Pf HRP2 gene deleted cases as well as all *P. falciparum* cases
- Combined detection of both Pf HRP 2 + Pf pLDH for *P. falciparum* detection
- Ensure high sensitive detection through Pf HRP 2 and also Pf pLDH to detect PfHRP2 gene deletion cases
- Differential detection of BIG Two i.e. *P. falciparum* (Pf HRP2+ Pf pLDH) and *P. vivax* for early detection and initiation of correct treatment
- Sensitivity & Specificity: >98%
- Easy to use, 20 minutes test, suitable for point of care testing
- Storage: 4°C to 40°C



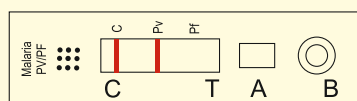
Result Interpretation



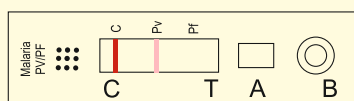
POSITIVE for Pf malaria



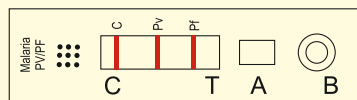
NEGATIVE for malaria



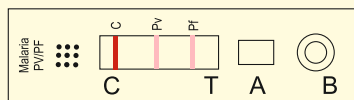
POSITIVE for Pv Malaria



INVALID Result



POSITIVE for Pf and Pv Malaria



INVALID Result

Malaria RDTs..... exposing hidden danger, ensuring sensitivity!

For further information contact :



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