

WHO Prequalification of In Vitro Diagnostics PUBLIC REPORT

Product: First Response Malaria Antigen *P. falciparum* (HRP2) Card Test
WHO reference number: PQDx 0283-010-00

First Response Malaria Antigen *P. falciparum* (HRP2) Card Test with product codes **PI13FRC25s, PI13FRC10s, PI13FRC25, and PI13FRC30**, manufactured by **Premier Medical Corporation Private Limited, Rest-of-World regulatory version**, was accepted for the WHO list of prequalified in vitro diagnostics and was listed on 04 December 2018.

Summary of WHO prequalification assessment for the First response Malaria Antigen *P. Falciparum* (HRP2) Card Test

	Date	Outcome
Prequalification listing	04 December 2018	listed
Dossier assessment	28 September 2018	MR
Site inspection(s) of quality management system	22-24 September 2024	MR
Product performance evaluation	2015	MR

MR: Meets Requirements

Report amendments and/or product changes.

This public report has since been amended. Amendments may have arisen because of changes to the prequalified product for which WHO has been notified and has undertaken a review. Amendments to the report are summarized in the following table, and details of each amendment are provided below.

Public report amendment	Summary of amendment	Date of report amendment
Version 2	The introduction of new suppliers for Alcohol Swab and Twist Lancet resulted in the change of labels.	7 March 2025

Intended use

According to the claim from the manufacturer for product “*First Response Malaria Antigen P. falciparum (HRP2) Card Test is intended to be performed by trained users (in either laboratory and point of care settings) as qualitative screening in vitro diagnostic test for detection of P. falciparum specific HRP2 antigens. The test is intended for use with human whole blood specimens (capillary or venous blood). Venous blood with the anti-coagulants*

heparin, EDTA, or sodium citrate does not affect the test results. This kit is not intended to be used for screening of blood donors. The test is not automated and does not require any additional instrument”.

Assay description

According to the claim from manufacturer for product “*First Response Malaria Antigen P. falciparum (HRP2) Card Test is based on principle of immunochromatography in which nitrocellulose membrane is pre-coated with one monoclonal antibody (test line P.f.) specific to Histidine Rich Protein 2 (HRP2) of the Plasmodium falciparum. When the test sample along with buffer flow through the nitrocellulose membrane, second monoclonal antibodies specific for HRP2 Antigen conjugated with colloidal gold, binds to HRP2 antigens released from the lysed blood sample. This antigen-conjugated antibody complex moves through the nitrocellulose membrane and binds to the immobilized HRP2 specific monoclonal antibody at the test line, which leads to the formation of colour band indicating reactive results. The control band will appear irrespective of reactive or non-reactive sample. So, the First Respo Malaria Antigen P. falciparum (HRP2) Card Test is designed for the diagnosis of Plasmodium falciparum”.*

Test kit contents

Description	Configuration	
Each single test pack contains: <ul style="list-style-type: none"> • 1 × Test device & desiccant • 1 × Specimen Transfer device • 1 × Alcohol swab • 1 × Sterile lancet • 1 × Buffer vial • 1 × Instructions for use 	10 × single test (product code PI13FRC10s)	1 × Master Instructions for Use
	25 × single test (product code PI13FRC25s)	1 × Master Instructions for Use
<ul style="list-style-type: none"> • Test device with desiccant • Specimen Transfer device • Buffer Bottle • Sterile Lancet • Alcohol swabs (Optional) • Instructions for use 	30 × multi test (product code PI13FRC30)	n/a
	25 × multi test (product code PI13FRC25)	n/a

Items required but not provided:

- New pair of disposable gloves
- Pen
- Timer
- Extra lancets and alcohol swabs if needed
- Sharps box
- Non-sharps disposal container
- Venipuncture blood collection materials and precision pipette plus tip (if whole blood is collected by venipuncture)
- Biohazardous waste container

Storage

The test kit should be stored at 1 - 40 °C.

Shelf-life upon manufacture

24 months.

Warnings/limitations

Refer to current version of manufacturer's instructions for use.

Prioritization for prequalification

Based on the results of the WHO product testing of malaria RDTs for Round 6, the First Response Malaria Antigen *P. falciparum* (HRP2) Card Test was given priority for WHO prequalification assessment.

Dossier assessment

Premier Medical Corporation Private Limited submitted a product dossier for First Response Malaria Antigen *P. falciparum* (HRP2) Card Test as per the "*Instructions for compilation of a product dossier*" (PQDx_018 v1). The information (data and documentation) submitted in the product dossier was reviewed by WHO staff and external technical experts (assessors) appointed by WHO.

The manufacturer's responses to the nonconformities found during dossier screening and assessment findings were accepted on 28 September 2018.

Based on the screening and assessment findings, the product dossier for the First Response Malaria Antigen *P. falciparum* (HRP2) Card Test meets WHO prequalification requirements.

Manufacturing site inspection

An onsite inspection of Premier Medical Corporation Private Limited., at A1-302 and 3704-05, GIDC, Sarigam INA, 396155 Gujarat, India, was conducted from the 22nd to 24th of September 2024. At the time of considering the product application for Prequalification, the Manufacturer of the product had a well-established quality management system and manufacturing practices in place that would support the manufacture of a product of consistent quality. Routine inspections of the Manufacturing site will be conducted with copies of the WHO Public Inspection Report (WHOPIR) published on the WHO Prequalification web page as per Resolution WHA57.14 of the World Health Assembly. Note that a WHOPIR reflects the information on the most current assessment performed at a manufacturing site for in vitro diagnostic products and summarizes the assessment findings.

<https://extranet.who.int/pgweb/vitro-diagnostics/who-public-inspection-reports>

All published WHOPIRs are with the agreement of the manufacturer.

The onsite inspection was accepted on 10 February 2025.

Based on the site inspection and corrective action plan review, the quality management system for the First Response Malaria Antigen *P. falciparum* (HRP2) Card Test meets WHO prequalification requirements.

Product performance evaluation

The sixth round of WHO product testing of RDTs for malaria antigen detection was completed in 2015. The product was evaluated against a Plasmodium *falciparum* cultured line panel, a *P. falciparum* wild-type parasite panel, a *P. vivax* wild-type parasite panel and a Plasmodium *spp.* negative panel. Thermal stability was assessed after 2 months of storage at elevated temperature and humidity, and a descriptive ease of use assessment was recorded.

Based on the demonstrated *P. falciparum* panel detection score (91.0% at 200 parasites/μl), false-positive rates (1.0% for clean negatives, 0.0% for *P. vivax* at 200 parasites/μl, 0.0% for *P. vivax* at 2000 to 5000 parasites/μl) and invalid rate (0.0%), First Response Malaria Antigen *P. falciparum* (HRP2) Card Test meets the current laboratory evaluation requirements for prequalification.

Summary performance characteristics	Panel detection score (%)		False positive rate (%)			Invalid rate (%)
	200 parasites/ μ l		200 parasites/ μ l		Clean negatives	
	<i>Pf</i>	<i>Pv</i>	<i>Pf</i>	<i>Pv</i>		
First Response Malaria Antigen <i>P. falciparum</i> (HRP2) Card Test	91.0	NA	NA	0.0	1.0	0.0

Labelling

- 1. Labels**
- 2. Instructions for use**

1. Labels

Alcohol swab label



Discard Prep Pad After Single Use

Directions:

Apply topically as needed to cleanse intended area

Phoenix Innovative Healthcare Manufacturers Pvt. Ltd.
EL-209, Shil Mahape Road, Electronic Zone,
MIDC, TTC Industrial Area, Mahape,
Navi Mumbai - 400 710 MH | India
Customer Care : 022-61075501
Email : customercare@phoenix-hs.com
NCE-MH/DRUGS/25-MH/101592



Advena Ltd.,
Tower Business Centre,
2nd Flr, Tower Street,
Swatar, BKR 4013, Malta



XXXXXXXX

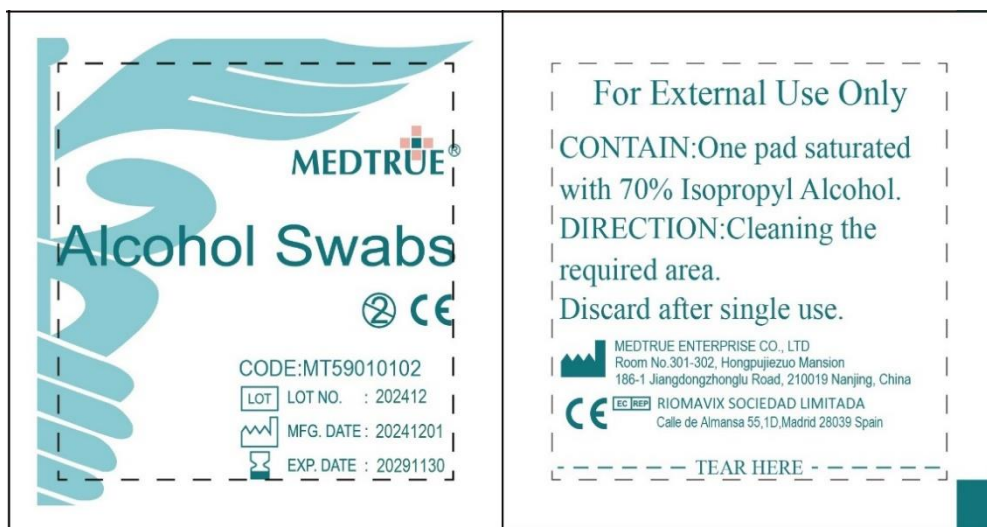


YYYY-MM



YYYY-MM

Rev.00



Sterile Twist lancet label

PANTONE Reflex Blue C
Size:50*42mm

Blood Lancets (Sterile Lancet)

Model / Specification

LOT

MFG. DATE

EXP. DATE

QTY

:

:

:

:

:

I / 28G


2407321801

2024-07-05


2029-07-04


25pcs


UDI





(01)06040511007109111240705
(17)290704102407321801



















STERILE R












CE 0197

EC REP

Linkfar Healthcare GmbH
Niederheidestraße 71, 40474 Düsseldorf, Germany
TEL: +49-211-3633088



Shandong Lianfa Medical Plastic Products Co., Ltd.
No.1 Shuangshan Sanjian Road, Zhangqiu, Jinan City, 250200, Shandong P.R. China

PANTONE Reflex Blue C
Size:50*42mm

Blood Lancets (Sterile Lancet)

Model / Specification : I / 28G


LOT NO. : 2407321802

MFG. DATE : 2024-07-12



































EXP DATE : 2029-07-11

QTY : 30pcs

UDI



(013694951700711611)240712
(172907111602407321802)

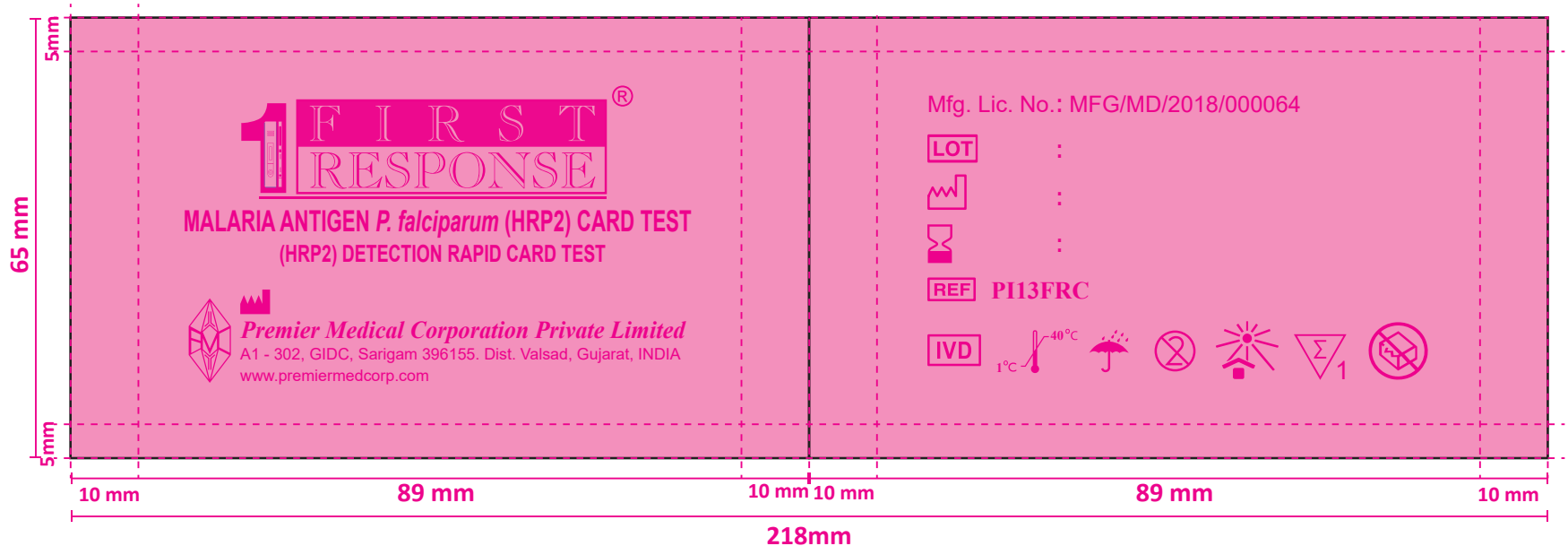
Assay buffer label- First Response Malaria Antigen *P. falciparum*
(HRP2) Card Test 2.5 ml



Assay buffer label- First Response Malaria Antigen *P. falciparum*
(HRP2) Card Test 3.0 ml



Product Name : Aluminum pouch - F.R Malaria Antigen P. falciparum (HRP2) Card Test



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For *in vitro* Diagnostic Use Only.

Malaria Antigen *P. falciparum*
(HRP2) Card Test
(Whole Blood)



Product Name : F.R Malaria Antigen *P. falciparum* (HRP2) Card Test
Pack Size : 10 Single Tests

REF P113FRC10s
 Σ 10s Tests/kit

One Step Malaria Antigen *P. falciparum* (HRP2)



IVD



REF PI13FRC10s
 Σ 10s Tests/kit

One Step Malaria Antigen *P. falciparum* (HRP2)



Mfg. Lic. No. : MFG/MD/2018/000064

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Material Provided:

- 10 Single Test Pack
Each single test pack contents:
(Test device & desiccant, Specimen Transfer Device, Alcohol swab, Sterile lancet, Buffer Vial & Instructions for use.)
- Master Instruction for use : 1 No.

Rev.: AB, 2024-10



Malaria Antigen *P. falciparum* (HRP2) Card Test (Whole Blood)



For Professional Use.



Premier Medical Corporation Private Limited
A1 - 302, GIDC, Sarigam 396155. Dist. Valsad, Gujarat, INDIA
Customer support email : info@premiermedcorp.com
Tel.: +91 260 2780112/113, www.premiermedcorp.com



Malaria Antigen *P. falciparum* (HRP2) Card Test (Whole Blood)



Malaria Antigen *P. falciparum* (HRP2) Card Test
(Whole Blood)



Product Name : F.R Malaria Antigen <i>P. falciparum</i> (HRP2) Card Test Pack Size : 25 Single Tests

One Step Malaria Antigen *P. falciparum* (HRP2)



IVD



One Step Malaria Antigen *P. falciparum* (HRP2)



LOT

$$\vdots$$

$$\begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$\begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}$$

- 25 Single Test Pack
Each single test pack contents:
(Test device & desiccant, Specimen Transfer Device, Alcohol swab, Sterile lancet, Buffer Vial & Instructions for use.)
- Master Instructions for use : 1 No.



**Malaria Antigen *P. falciparum*
(HRP2) Card Test
(Whole Blood)**



Premier Medical Corporation Private Limited
A1 - 302, GIDC, Sarigam 396155. Dist. Valsad, Gujarat, INDIA
Customer support email : info@premiermedcorp.com
Tel.: +91 260 2780112/113, www.premiermedcorp.com



Malaria Antigen *P. falciparum* (HRP2) Card Test (Whole Blood)

2. Instructions for use¹

¹ English version of the IFU was the one that was assessed by WHO. It is the responsibility of the manufacturer to ensure correct translation into other languages.

Bulk test pack size

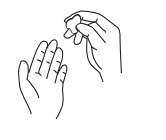
- 10) Do not re-use the test device, alcohol swab, lancet and specimen transfer device as are intended for single use only.
- 11) Perform the test by using kit assay buffer, any other buffer or fluid will invalidate the test results.
- 12) Do not allow the tip of assay buffer vial to touch specimen well, it contaminate assay buffer.
- 13) Do not use test device and assay buffer beyond the date of expiry.
- 14) Do not eat the desiccant.
- 15) Do not use any other specimen other than human whole blood & do not mix and interchange different specimens.


Specimen collection and storage

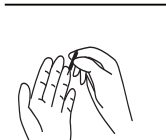
[Collection by venipuncture]

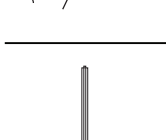
- 1) Collect the whole blood into the collection tube (containing EDTA/sodium citrate/heparin) by venipuncture.
- 2) If specimens are not immediately tested (Within 1 hour) should be stored at 2-8 °C maximum upto 72 hours (3 days). Using the specimen more than three days can cause non-specific reaction.

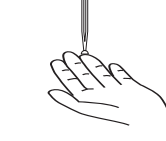
Capillary blood specimen collection:

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- Wear gloves, massaging the fingertip gently. It will help to obtain a round drop of blood.
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- Wipe the complete finger tip with the alcohol swab. Wait untill the finger tip dried completely.
- 

- Detach the protective cap of the lancet and pierce the end of finger tip with the sterile lancet provided.
- 

- Gently squeeze the area until you get enough blood specimen.
- 

- After completion of specimen collection, take the used alcohol swab of same patient and press it on the finger to stop the bleeding.
- Note :** A lancet should only be used once. Dispose of used lancets in sharp box and alcohol swab in biohazard waste container.

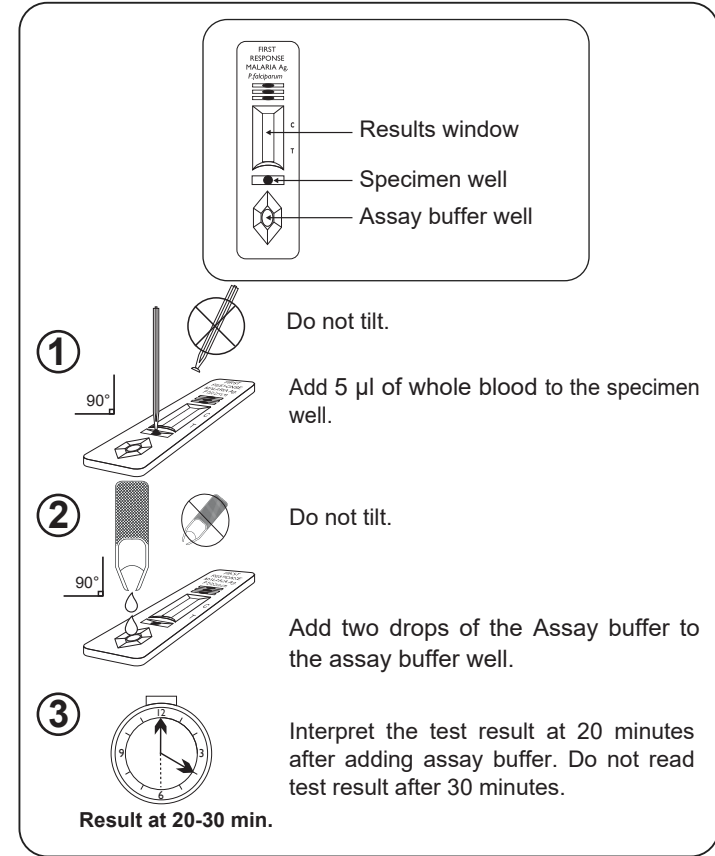
 - Do not share used lancets with another person. To prevent possible infection, a used lancet should not be touched by another person.
 - Do not use expired lancet. The use of an expired lancet may cause any infection at the punctured skin due to cease to exist its sterility.
 - Use new lancet and choose a different puncture site, if repeat the finger prick.
 - Do not share used alcohol swab.

Specimen storage

- 1) Whole blood specimen may be used for testing immediately (within 1 hour) or may be stored at 2-8°C for maximum up to 72 hours (3 days). Do not use blood specimen stored for more than 3 days, it can cause non-specific reaction.

Test Procedure

- 1) Bring the First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test components to room temperature (15 - 40°C) prior to 15 minutes of testing.
- 2) Remove the test device and the specimen transfer device from the pouch and place it on a flat, dry surface and label the test device with specimen identification number/name.
- 3) Slowly add 5 µl of whole blood to the specimen well using the specimen transfer device. Dispose the used Specimen transfer device as biohazardous waste immediately after use.
- 4) Add two drops of the Assay buffer to the assay buffer well.
- 5) Observe for development of colored bands in the Results Window.
- 6) Interpret test results at 20 minutes. (After recording the results, dispose of test device as a biohazardous waste).
- 7) Do not interpret after 30 minutes.



Caution

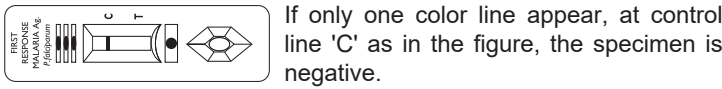
- Hold specimen transfer device and assay buffer vial, vertically,else it can lead to inaccurate results.
- Exactly 2 drops of assay buffer should be added. Adding more or less than 2 drops may cause over flooding or reverse migration phenomenon, which may lead inaccurate results of the test.
- Results can be interpreted any time from 20 to 30 minutes. Do not read test result after 30 minutes. Reading beyond 30 minutes may give inaccurate results. After recording the results, dispose of test device as a biohazard waste.

Internal Quality Control

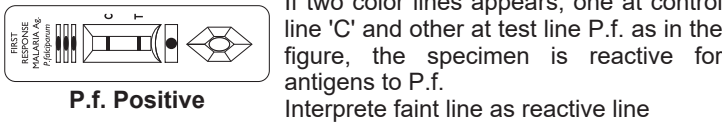
The visualization of the control line in First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test indicates that active ingredient of the strips are functional and the migration is successful. The control line in First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test is not meant for specimen addition monitoring.

How to Interpret test results

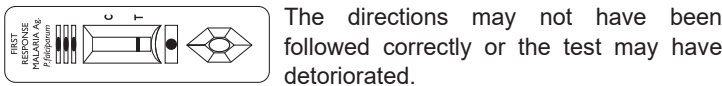
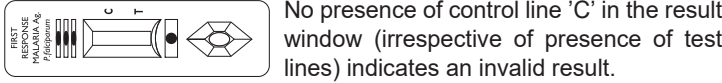
Negative Results



Positive Results



Invalid Results



The Invalid test results should be retested-with new test device.

Performance Characteristics

First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test were tested using an in-house panel of Positive and Negative clinical specimens characterized by a malaria microscopy as the reference method. First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test showed 100% sensitivity and 100% specificity. First Response® Malaria Antigen P. falciparum (HRP2) Card Test showed 100% agreement with the reference method.

Specimen details	Reference Method (Microscopy)		First Response® Malaria Antigen <i>P. falciparum</i> (HRP2)Card Test		
	Positive	Negative	Positive	Negative	Total
<i>P. falciparum</i> Positive Whole blood specimen	224	0	224	0	224
Malaria Negative Whole blood specimen	0	963	0	963	963
Total	224	963	224	963	1187

Reference Method	Specimen details		First Response® Malaria Antigen <i>P. falciparum</i> (HRP2)Card Test			
Microscopy	Clinical Status	Parameter	Positive	Negative	Total Result	95% Confidence Interval
	<i>P. falciparum</i> Positive	Sensitivity	224	00	224	(97.89%-100%)
	Malaria Negative	Specificity	00	963	963	(99.50%-100%)

Worldwide Performance Panel

The Analytical sensitivity of the First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test was carried out by testing WHO worldwide performance panel. Total 10 specimens were tested in-house. The First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test showed 100% sensitivity.

Analytical Sensitivity : In-House Evaluation					
Total Specimens		First Response® Malaria Antigen <i>P. falciparum</i> (HRP2) Card Test			
		Positive		Negative	
05	200 p/µl	05		00	
05	2000 p/µl	05		00	

Cross Reactivity Study

First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test was tested with specimen reactive for other diseases/conditions (mentioned in following table), which may interfere with performance of the test. The First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test tested with mentioned specimen for cross reactivity study as well as same diseased/condition specimens# were also used for spiking of malaria positive specimens* to determine effect on sensitivity of the test. None of the specimens interfere with the test results of First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test, and showed no cross reactivity with 100% sensitivity.

Specimen Details	Specimen Size	Specimen Details	Specimen Size
Syphilis Positive#	05	HSV 1/2 Positive#	05
HIV Positive#	05	Rubella Positive#	05
Dengue NS1 Positive#	05	HTLV- I Ab Positive#	07
Pregnant Woman	03	HTLV- II Ab Positive#	09
CMV Positive#	03	HSV - I IgG Positive#	08
ANA Positive#	04	Rubella IgG Positive#	10
HAV Positive#	04	HBV Positive#	05
EBV Positive#	02	Chikungunya Positive#	05
HCV Positive#	05	Anti-malarial drug medication	03
RF Positive	05	Anti-TB drug medication#	03
<i>P.Vivax</i> Positive*	115		

*Note: Specimens were not used for spiking

Potential interference substances

The interfering substances that may affect performance of the First Response® Malaria Antigen P. falciparum (HRP2) Card Test are mentioned in following table. The First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test showed no reactivity with any of mentioned specimens and showed 100% specificity. The same specimens# were spiked in malaria positive specimens respectively and tested.First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test showed 100% sensitivity with spiked specimens.

Specimen details	Specimen size	Specimen details	Specimen size
Lipemic specimen#	05	Low Hematocrit specimens	05
Icteric specimens#	05	Whole blood specimen in ACD anticoagulant	05
Hemolytic specimens	05	RF Ab 4001 - 5000 IU/mL Plasma#	04
High Hematocrit specimens	05	dsDNA Antibody Positive Plasma#	01

Precision

- a) Within run, precision was determined by using 81 replicates of 15 different specimens containing different malaria parasitic count. Within run, precision was observed 100%
- b) Between run, precision was determined by using the 15 different specimens containing different malaria parasitic count in 3 different replicates with 3 different lots of test devices X 3 different persons X 3 different sites tested. Between run, precision was observed 100%.

External Evaluation Report

Name of the Institute	Year of Testing	Sensitivity		Specificity
WHO Evaluation Round 6	2014-2015	200 p/ul	2000 p/ul	99.0%
		91%	100%	
National Public Health & Reference Lab, Ghana	2015	100%		100%
Ministry of Health and Children Care, Zimbabwe	2014	95.5 %		98%

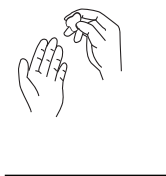
Single test pack size

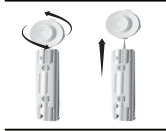
- 10) Do not re-use the test device, alcohol swab, lancet and specimen transfer device as are intended for single use only.
- 11) Perform the test by using kit assay buffer, any other buffer or fluid will invalidate the test results.
- 12) Do not allow the tip of assay buffer bottle to touch specimen well, it will contaminate assay buffer.
- 13) Do not use test device and assay buffer beyond the date of expiry.
- 14) Do not eat the dessicant.
- 15) Do not use any other specimen other than human whole blood & do not mix and interchange different specimens.


Specimen collection and storage

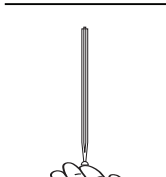
- [Collection by venipuncture]
- 1) Collect the whole blood into the collection tube (containing EDTA/sodium citrate/heparin) by venipuncture.
- 2) If specimens are not immediately tested (within 1 hour) should be stored at 2-8 °C maximum upto 72 hours (3 days).Using the specimen more than three days can cause non-specific reaction.

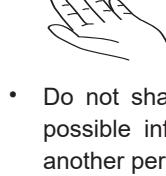
Capillary blood specimen collection:

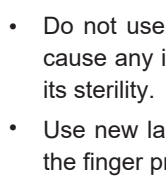
- 

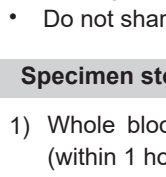
• Wear gloves, massaging the fingertip gently. It will help to obtain a round drop of blood.
- 

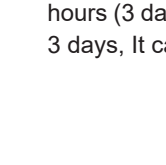
• Wipe the complete finger tip with the alcohol swab. Wait untill the finger tip dried completely.
- 

• Detach the protective cap of the lancet and pierce the end of finger tip with the sterile lancet provided.
- 

• Gently squeeze the area until you get enough blood specimen.
- 

• After completion of specimen collection, take the used alcohol swab of same patient and press it on the finger to stop the bleeding.
- 

Note : A lancet should only be used once. Dispose of used lancets in sharp box and alcohol swab in biohazard waste container.
- 

• Do not share used lancets with another person. To prevent possible infection, a used lancet should not be touched by another person.
- 

• Do not use expired lancet. The use of an expired lancet may cause any infection at the punctured skin due to cease to exist its sterility.
-

• Use new lancet and choose a different puncture site, if repeat the finger prick.
-

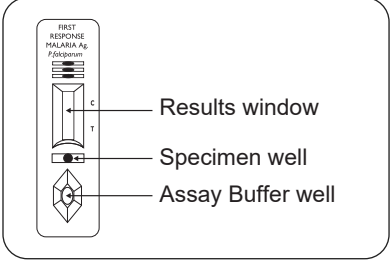
• Do not share used alcohol swab.

Specimen storage

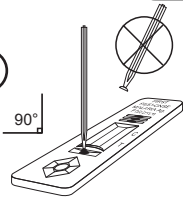
- 1) Whole blood specimen may be used for testing immediately (within 1 hour) or may be stored at 2-8°C for maximum up to 72 hours (3 days). Do not use blood specimen stored for more than 3 days, It can cause non-sepcific reaction.

Test Procedure

- 1) Bring the First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test components to room temperature (15 - 40°C) prior to 15 minutes of testing.
- 2) Remove the Test Device and the Specimen transfer Device from the kit and place it on a flat, dry surface and Label the Test Device with specimen identification number/name.
- 3) Slowly add 5 µl of whole blood to the specimen well using the Specimen Transfer Device. Dispose the used Specimen transfer device as biohazardous waste immediately after use.
- 4) Add two drops of the assay buffer to the assay buffer well.
- 5) Observe for development of colored bands in the Results Window.
- 6) Interpret test results at 20 minutes. (After recording the results, dispose of test device as a biohazardous waste).
- 7) Do not interpret after 30 minutes.



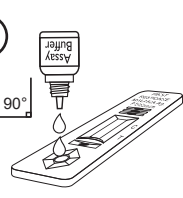
1



Do not tilt.

Add 5 µl of whole blood to the specimen well.

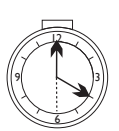
2



Do not tilt.

Add two drops of the assay buffer to the assay buffer well.

3



Interpret the test result at 20 minutes after adding assay buffer. Do not read test result after 30 minutes.

Result at 20-30 min.

Caution

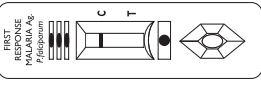
- Hold specimen transfer device and assay buffer bottle vertically,else it can lead to inaccurate results.
- Exactly 2 drops of assay buffer should be added. Adding more or less than 2 drops may cause over flooding or reverse migration phenomenon, which may lead inaccurate results of the test.
- Results can be interpreted any time from 20 to 30 minutes.Do not read test result after 30 minutes. Reading beyond 30 minutes may give inaccurate results. After recording the results, dispose of test device as a biohazard waste.

Internal Quality Control

The visualization of the control line in First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test indicates that active ingredient of the strips are functional and the migration is successful. The control line in First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test is not meant for specimen addition monitoring.

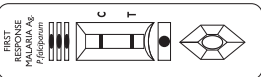
How to Interpret test results

Negative Results



If only one color line appear, at control line 'C' as in the figure, the specimen is negative.

Positive Results

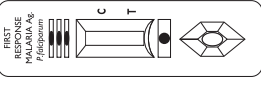


P.f. Positive

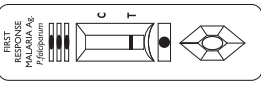
If two color lines appears, one at control line 'C' and other at test line 'T' as in the figure, the specimen is reactive for antigens to *P.f*.

Interprete faint line as reactive line

Invalid Results



No presence of control line 'C' in the result window (irrespective of presense of test lines) indicates an invalid result.



The directions may not have been followed correctly or the test may have deteriorated.

The Invalid test results should be retested with new test device.

Performance Characteristics

First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test were tested using an in-house panel of Positive and Negative clinical specimens characterized by malaria microscopy as the reference method. First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test showed 100% sensitivity and 100% specificity. First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test showed 100% agreement with the reference method.

Specimen details	Reference Method (Microscopy)		First Response® Malaria Antigen <i>P. falciparum</i> (HRP2)Card Test		
	Positive	Negative	Positive	Negative	Total
<i>P. falciparum</i> Positive Whole blood specimen	224	0	224	0	224
Malaria Negative Whole blood specimen	0	963	0	963	963
Total	224	963	224	963	1187

Reference Method	Specimen details		First Response® Malaria Antigen <i>P. falciparum</i> (HRP2)Card Test			
Microscopy	Clinical Status	Parameter	Positive	Negative	Total Result	95% Confidence Interval
	<i>P. falciparum</i> Positive	Sensitivity	224	00	224	(97.89%-100%)
	Malaria Negative	Specificity	00	963	963	(99.50%-100%)

Worldwide Performance Panel

The analytical sensitivity of the First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test was carried out by testing WHO worldwide performance panel. Total 10 specimens were tested in-house. The First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test showed 100% sensitivity.

Analytical Sensitivity : In-House Evaluation					
Total Specimens		First Response® Malaria Antigen <i>P. falciparum</i> (HRP2) Card Test			
		Positive		Negative	
05	200 p/µl	05		00	
05	2000 p/µl	05		00	

Cross Reactivity Study

First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test was tested with specimen reactive for other diseases/conditions (mentioned in following table), which may interfere with performance of the test. The First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test tested with mentioned specimen for cross reactivity study as well as same diseased/condition specimens# were also used for spiking of malaria positive specimens# to determine effect on sensitivity of the test. None of the specimens interfere with the test results of First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test, and showed no cross reactivity with 100% sensitivity.

Specimens tested	<i>P. falciparum</i> negative specimens	<i>P. falciparum</i> positive specimens	Specimens tested	<i>P. falciparum</i> negative specimens	<i>P. falciparum</i> positive specimens
Syphilis Positive#	05	03	HSV 1/2 Positive#	05	05
HIV Positive#	05	03	HTLV- I Ab Positive#	07	07
Dengue NS1 Positive#	05	05	HTLV- II Ab Positive#	09	09
Pregnant Woman	72	08	HSV - I IgG Positive#	08	08
CMV Positive#	03	03	Rubella IgG & IgM Positive#	15	15
ANA Positive#	04	04	HBV Positive#	05	03
HAV Positive#	04	04	Chikungunya Positive#	05	05
EBV Positive#	02	02	Anti-malarial drug medication	Not tested	02
HCV Positive#	05	03	Anti-TB drug medication#	03	03
<i>Pv</i> ivax Positive*	115	Not applicable			

*Note: Specimens were not used for spiking

Potential interference substances

The interfering substances that may affect performance of the First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test are mentioned in following table. The First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test showed no reactivity with any of mentioned specimens and showed 100% specificity. The same specimens* were spiked in malaria positive specimens respectively and tested.First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test showed 100% sensitivity with spiked specimens.

Specimens tested	<i>P. falciparum</i> negative specimens	<i>P. falciparum</i> positive specimens	Specimens tested	<i>P. falciparum</i> negative specimens	<i>P. falciparum</i> positive specimens
Lipemic specimen#	05	05	Low Hematocrit specimens	05	Not tested
Icteric specimens#	05	05	Whole blood specimen in ACD anticoagulant	05	03
Hemolytic specimens	05	01	RF Ab positive#	09	04
High Hematocrit specimens	05	Not tested	dsDNA Antibody Positive Plasma#	01	01

Precision

- a) Within run, precision was determined by using 81 replicates of 15 different specimens containing different malaria parasitic count. Within run, precision was observed 100%.
- b) Between run, precision was determined by using the 15 different specimens containing different malaria parasitic count in 3 different replicates with 3 different lots of test devices X 3 different persons X 3 different sites tested. Between run, precision was observed 100%.

External Evaluation Report

Name of the Institute	Year of Testing	Sensitivity		Specificity
WHO Evaluation Round 6	2014-2015	200 P/µl	2000 P/µl	99.0%
		91%	100%	
National Public Health & Reference Lab, Ghana	2015	100%		100%
Ministry of Health and Children Care, Zimbabwe	2014	95.5 %		98%

Limitation
1) The test procedure, precautions and interpretation of results for this test must be followed when testing.
2) The following anticoagulants have been validated for use with this test: heparin, EDTA & sodium citrate.
3) Interfering specimens like hemolytic (hemoglobin containing) samples, icteric (bilirubin containing) samples and lipaemic samples do not affect the test results.
4) Do not mix reagent from different lots.
5) Interpret faint line as a reactive line. Repeat the test in case of very faint test line or if have any doubt for test line.
6) Although the test is very accurate in detecting HRP2, a low incidence of false results can occur. As with all diagnostic tests, a definitive clinical diagnosis should not be based on the results of a single test, but should only be made by the physician after all clinical and laboratory findings have been evaluated.
7) False negative results may arise due to very low parasite density (for instance < 100 p/μl), very high parasite density (prozone/hook effect), mutations in the HRP2 gene with deletion of HRP2 antigen, damage by heat, freezing or humidity, application of insufficient volume of blood on the device and use of wrong buffer.
8) False positive results can occur due to various conditions such as rheumatoid factors, antinuclear antibodies, chronic viral infection (hepatitis B or C), parasitic infection (schistosomiasis and trypanosomiasis) and use of wrong buffer.

SYMBOL LEGENDS			
Symbol	Explanation of symbol	Symbol	Explanation of symbol
	Consult instructions for use		Contains sufficient for < n > tests
	Non Sterile		Product Code
	In vitro diagnostic medical device		Lot Number
	Store at 1-40 °C		Manufacturer
	Caution		Date of manufacture (YYYY-MM)
	Keep dry		Expiration Date (YYYY-MM)
	Do not reuse		Do not use if package is damaged

References

1) Clinical and Laboratory Standards Institute. Procedures and devices for the collection of diagnostic capillary blood specimens; approved standard, fifth edition. CLSI H04-A6, Vol. 28, No. 25, 2008.

2) Clinical and Laboratory Standards Institute. Procedures for the collection of diagnostic blood specimens by venipuncture; approved standard, sixth edition. CLSI H03-A6, Vol. 27, No. 26, 2007

3) World Health Organization: Laboratory biosafety manual, third edition. Geneva: WHO; 2004.
<http://www.who.int/csr/resources/publications/biosafety/Bio-safety7.pdf>

4) WHO (2014). World malaria report, World Health Organization, Geneva, Switzerland. <http://rbm.who.int/wmr.2014>.

5) Malaria rapid diagnostic test performance: results of WHO product testing of malaria RDTs: round 5 (2013).

6) Gillet P, Scheirlinck A, Stokx J, De Weggeleire A, Chauque H, Canhanga O, Tadeu B, Mosse C, Tiago A, Mabunda S, Brugge-man C, Bottieau E, Jacobs J: Prozone in malaria rapid diagnos-tics tests: how many cases are missed? Malar J 2011, 10:166. <http://www.malariajournal.com/content/10/1/166>

7) Gillet P, Mori M, Van Den Ende J, Jacobs J: Buffer substitution in malaria rapid diagnostic tests causes false positive results. Malar J 2010, 9:215 <http://www.malariajournal.com/content/9/1/215>

8) Maltha J, Gillet P, Cnops L, Van Den Ende J, Van Esbroeck M, Jacobs J: Malaria rapid diagnostic tests: *Plasmodium falciparum* infections with high parasite densities may generate false positive *Plasmodium vivax* pLDH lines. Malar J 2010, 9:198. <http://www.malariajournal.com/content/9/1/198>

9) Gamboa D, Ho M, Bendezu J, Torres K, Chiodini P, Barnwell J, Incardona S, Perkins M, Bell D, McCarthy J, Cheng Q: A large proportion of *P. falciparum* isolates in the Amazon region of Peru lack pfhrp2 and pfhrp3: implications for malaria rapid diagnostic tests. PLoS One 2010, 5:e8091. <http://www.plosone.org/article/i fo%3Adoi%2F10.1371%2Fjour-nal.pone.0008091>

Product Disclaimer and Warnings

Every warning and precaution should be taken in to consideration before using the test. Failure to consider “Precaution, warning and Limitations” may not ensure the diagnostic ability and accuracy of this product. The test result may accordingly be affected by environmental factor and / or user error outside of the control of the Manufacturer and Distributor.

A definitive clinical diagnosis should not be based on the results of a single test, but it should be made by physician after all clinical and laboratory findings have been evaluated.

“In no event shall our comapny or its distributor be liable for any direct, indirect, punitive, unforeseen, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with an incorrect diagnosis, whether positive or negative, in the use or misuse of this product”.




Manufactured by

Premier Medical Corporation Private Limited
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Customer support E-mail : info@premiermedcorp.com
Tel.: +91 2602780112/113 •Website : www.premiermedcorp.com

• ISO 13485 & EN ISO 13485 Certified Company




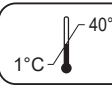
Part No.(S)PI13-INS-003, Rev.: AC, Date:2024-08-12 ENGLISH
Note : Instructions for use will be printed in local language of the country using the test, if required.



FIRST RESPONSE® MALARIA ANTIGEN *P. falciparum* (HRP2) CARD TEST
A rapid test for the detection of *P. falciparum* specific HRP2 antigen in human whole blood.

REF

PI13FRC10s & PI13FRC25s



Intended Use

First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test is intended to be performed by trained users (In either laboratory or point of care settings) as qualitative screening in vitro diagnostic test for detection of *P. falciparum* specific HRP2 antigens. The test is intended for use with human whole blood specimens (capillary or venous blood). Venous blood with the anti-coagulants heparin, EDTA or citrate do not affect the test results. This kit is not intended to be used for screening of blood donors. The test is not automated and does not require any additional instrument.

Introduction


Malaria is a serious, sometimes fatal, parasitic disease characterized by fever, chills, and anemia and is caused by four species of plasmodium parasites that is transmitted from one human to another by the bite of infected Anopheles mosquitoes. There are four Plasmodium species that can infect humans: *Plasmodium falciparum*, *P. vivax*, *P. ovale* and *P. malariae*. In humans, the parasites (called sporozoites) migrate to the liver where they mature and release another form, the merozoites into the blood which infect red blood cells. According to the latest estimates, 198 million cases of malaria ocured globally in 2013 and the diseases led to 584,000 deaths (WHO 2014). At present, malaria is diagnosed by looking for parasites in a drop of blood.

Assay Principle


First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test is based on principle of immunochromatography in which nitrocellulose membrane is pre-coated with one monoclonal antibody (test line P.f.) specific to Histidine Rich Protein 2 (HRP2) of the *Plasmodium falciparum*. When the test sample along with buffer flows through the nitrocellulose membrane, second monoclonal antibodies specific for HRP2 antigen conjugated with colloidal gold, binds to HRP2 antigens released from the lysed blood sample. This antigen-conjugated antibody complex moves through the nitrocellulose membrane and binds to the immobilised HRP2 specific monoclonal antibody at the test line, which leads to the formation of colour band indicating reactive results. The control band will appear irrespective of reactive or non reactive sample. So, the First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test is designed for the diagnosis of *Plasmodium falciparum*.

Materials Provided


Materials Provided	PI13FRC10s	PI13FRC25s
Each single test pack contents: [(Test device , desiccant & specimen transfer device) alcohol swab,sterile lancet, buffer vial & condensed instructions for use.]	10 Nos.	25 Nos.
Master instructions for use	1 No.	1 No.




Individually pouched test device



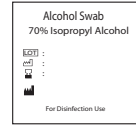
Assay buffer vial



Sterile Lancet



Specimen transfer device



Alcohol Swab

Precautions

1) Wear protective gloves while handling specimens.

2) Dispose of used gloves as biohazard waste. Wash hands thoroughly afterwards.

3) Avoid splashing or aerosol formation.

4) Clean up spills thoroughly using an appropriate disinfectant.

5) Decontaminate and dispose of all used specimens, test devices, alcohol swabs and specimen transfer device as an infectious waste, in a biohazardous waste container. Dispose of used lancets in a sharp box.

Warnings

1) For *in vitro* diagnostic use only.

2) Read the instructions carefully before performing the test, deviation will invalidate the test results.

3) Apply standard biosafety precautions for handling and disposal of potentially infective material.

4) Assay buffer contains sodium azide as preservative which may be toxic if ingested. When disposed of through sink, flush with large quantity of water.

5) Devices and assay buffer of different lot must not be used.

6) Do not use the test device if the pouch is not intact.

7) Do not use the lancet if the seal is broken.

8) Do not use the test device if the desiccant found saturated.

9) Do not smoke, eat or drink while handling specimens and performing a test.

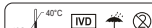
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First Response Malaria Antigen *P. falciparum* (HRP2) Card Test

Rapid One Step Malaria Antigen *P. falciparum* (HRP2) Test



REF: P113FRC10s & P113FRC25s

Intended Use :

First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test is intended to be performed by trained users (in either laboratory or point of care settings) as qualitative screening *in vitro* diagnostic test for detection of *P. falciparum* specific HRP2 antigens. The test is intended for use with human whole blood specimens (capillary or venous blood). Venous blood with the anti-coagulants heparin, EDTA or citrate do not affect the test results. This kit is not intended to be used for screening of blood donors. The test is not automated and does not require any additional instrument.

Materials provided :

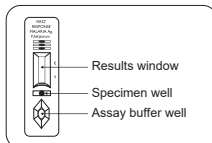
Test device with desiccant & specimen transfer device, assay buffer vial, sterile lancet, alcohol swab, instruction for use

Storage & stability :

- 1) First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test should be stored at 1°C - 40°C.
- 2) Test device is sensitive to humidity and heat if remained opened for longer period hence perform the test immediately after removing the test device from the foil pouch.
- 3) The shelf life of the kit is as indicated on the outer package.

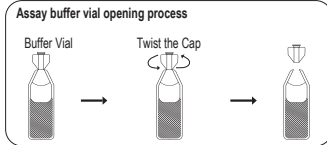
Precautions & warnings:

- 1) Wear protective gloves while handling specimens.
- 2) Apply standard biosafety precautions for handling and disposal of potentially infective material.
- 3) Assay buffer contains sodium azide as preservative which may be toxic if ingested. When disposed of through sink, flush with large quantity of water.
- 4) Do not use the test device if the pouch is not intact.
- 5) Do not use the lancet if the seal is broken.
- 6) Do not use the test device if the desiccant found saturated.
- 7) Do not re-use the test device, alcohol swab, lancet and specimen transfer device as are intended for single use only.
- 8) Perform the test by using kit assay buffer, any other buffer or fluid will invalidate the test results.
- 9) Do not eat the desiccant.
- 10) Do not use any other specimen other than human whole blood & do not mix and interchange different specimens.



Test Procedure :

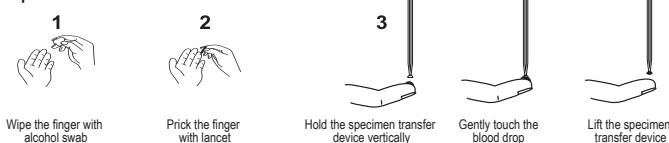
- 1) Bring the First Response® Malaria Antigen *P. falciparum* (HRP2) Card Test components to room temperature (15-40°C) prior to 15 minutes of testing.
- 2) Remove the test Device and the specimen transfer device from the pouch and place it on a flat, dry surface and label the test device with specimen identification number/name.
- 3) Slowly add 5 µl of whole blood to the specimen well using the specimen transfer device. Dispose the used Specimen transfer device as biohazardous waste immediately after use.
- 4) Add two drops of the assay buffer to the assay buffer well.
- 5) Observe for development of colored bands in the Results Window.
- 6) Interpret test results at 20 minutes. (After recording the results, dispose of test device as a biohazardous waste).
- 7) Do not interpret after 30 minutes.



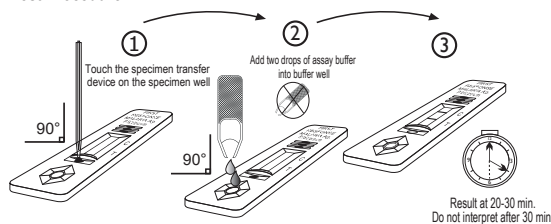
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Specimen Collection , Test Procedure & Result Interpretation

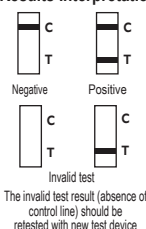
Specimen Collection



Test Procedure



Results Interpretation



The invalid test result (absence of control line) should be retested with new test device



Manufactured by

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• ISO 13485 & EN ISO 13485 Certified Company

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