

## WHO Prequalification of In Vitro Diagnostics Programme PUBLIC REPORT

**Product: Bioline Malaria Ag P.f/P.v<sup>1</sup>**  
**Number: PQDx 0125-012-00**

**Bioline™ Malaria Ag P.f/P.v** with product code **05FK80, 05FK83, 05FK86, 05FK87, 05FK81 and 05FK82** manufactured by **Abbott Diagnostics Korea Inc<sup>2</sup>**, CE marked regulatory version, was accepted for the WHO list of prequalified in vitro diagnostics and was listed on 16 October 2015.

### Summary of prequalification status for Bioline Malaria Ag P.f/P.v

	Date	Outcome
<b>Status on PQ list</b>	16 October 2015	listed
<b>Dossier assessment</b>	14 August 2015	MR
<b>Site inspection(s) of quality management system</b>	24 July 2015	MR
<b>Product performance evaluation</b>	Round 2 (2009) and Round 6 (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 table below.

Version	Summary of amendment	Date of report amendment
1.0-5.0	Editorial amendments and addition of a product codes 05FK83, 05FK86 and 05FK87	2 April 2016
6.0	Addition of product codes 05FK81 and 05FK082	22 December 2016
7.0	Changes to the manufacturer name from Standard Diagnostics, Inc to Abbott Diagnostics Korea Inc and	20 August 2020

<sup>1</sup> Product name was changed from SD BIOLINE Malaria Ag P.f/P.v to BiolineMalaria Ag P.f/P.v.

<sup>2</sup> Manufacturer's name changed from Standard Diagnostics, Inc to Abbott Diagnostics Korea Inc

	product name from SD BIOLINE Malaria Ag P.f/P.v to Bioline Malaria Ag P.f/P.v.	
8.0	Addition of manufacturing site for device assembly, pouch sealing and packaging process of Malaria Ag products.	17 May 2022

**Intended use:**

According to the claim of intended use from Abbott Diagnostics Korea Inc, *“the Bioline Malaria Ag P.f/P.v test is a rapid, qualitative test for the differential detection of HRP2 (Histidine-rich protein II) specific to Plasmodium falciparum and pLDH (Plasmodium lactate dehydrogenase) specific to Plasmodium vivax in human whole blood”.*

**Test principle:**

According to the claim of assay description from Abbott Diagnostics Korea Inc, *“the Bioline Malaria Ag P.f/P.v test device contains a membrane strip, which is pre-coated with one monoclonal antibody and the other monoclonal antibody as two separate lines across a test strip. One monoclonal antibodies (test line P.f) are specific to the HRP2 of P. falciparum and the other monoclonal antibodies (test line P.v) are specific to the lactate dehydrogenase of Plasmodium vivax. This kit is intended for the detection of Malaria infection in human blood specimen, indicating differential diagnosis between P.f HRP2 (Plasmodium falciparum, histidine-rich protein II) and pLDH (Plasmodium lactate dehydrogenase) specific to Plasmodium vivax”.*

**Test kit contents:**

	<b>25T/kit (product code 05FK80)</b>	<b>1T/kit x 25ea (product code 05FK83)</b>	<b>10T/kit (product code 05FK86)</b>	<b>25T/kit (product code 05FK87)</b>	<b>25T/kit (product code 05FK81)</b>	<b>1T/kit x 25ea (product code 05FK82)</b>
<b>Test cassettes</b> individually packed in foil pouch with a desiccant	25 test devices	25x 1 test device	10 test devices	25 test devices (in 3 kits; 2 kits containing 8T/kit and 1 kit containing 9T/kit)	25 test devices	25x 1 test device
<b>Assay diluent</b> dispensed in plastic bottle	1 x 5ml/bottle	25x 180µl/vial	1 x 3ml/bottle	3 x 5ml/bottle	1 x 5ml/bottle	25x 180µl/vial
<b>Specimen transfer devices</b> disposable (5µl)	25 units of 5µl	25 pouches each containing one specimen transfer device (5µl), one lancet, one alcohol swab	10 units of 5µl	30 units of 5µl	25 units of 5µl	25 pouches each containing one specimen transfer device (5µl), <b>one safety lancet</b> , one alcohol swab
<b>Lancets (optional)</b> Disposable, sterilized	25 units		10 units	30 units	25 units ( <b>safety lancet</b> )	
<b>Alcohol swabs (optional)</b> Disposable	25 units		10 units	30 units	25 units	
<b>Instructions for use</b>	1 copy	1 copy	1 copy	6 copies	1 copy	1 copy
<b>Summarized instructions for use</b>	N/A	25 copies	N/A	N/A	N/A	25 copies

**Storage:**

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

**Shelf-life:**

24 months.

## Prioritization for prequalification

Based on the results of the WHO product testing of malaria RDTs Round 2, Bioline Malaria Ag P.f/P.v was given priority for prequalification assessment .

## Dossier assessment

Abbott Diagnostics Korea Inc. submitted a product dossier for Bioline Malaria Ag P.f/P.v as per the “Instructions for compilation of a product dossier” (PQDx\_018 v1). The information submitted in the product dossier was reviewed by WHO staff and external experts (assessors) appointed by WHO in accordance with the internal report on the screening and assessment of a product dossier (PQDx\_009 v2). Based on the product dossier screening and assessment findings, a recommendation was made to accept the product dossier for Bioline Malaria Ag P.f/P.v for prequalification.

### Commitments for prequalification:

The manufacturer committed to amend and submit additional documentation on the following issues:

1. Transport stability data due October 2016.
2. The manufacturer also commits to seek specimens from patients infected with *Schistosoma* to test for possible cross-reactions.

Commitments are under review.

## Manufacturing site inspection

A comprehensive inspection<sup>3</sup> was performed at the site of manufacture (Production: 65, Borahagal-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea 446-930 and Warehouse: 19-22, Dongtansandan 3-gil, Dongtan-myeon, Hwaseong-si, Gyeonggi-do, Republic of Korea) of Bioline Malaria Ag P.f/P.v in May 2015 as per the Information for manufacturers on prequalification inspection procedures for the sites of manufacture of diagnostics (PQDx\_014 v1). The inspection found that the manufacturer had an acceptable quality management system and good manufacturing practices in place that ensured the consistent manufacture of a product of good quality. The manufacturer's responses to the nonconformities found at the time of the inspection were accepted 24 July 2015.

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<sup>3</sup> Previous site inspections were carried out in September 2010, March 2012, and November 2012.

## Product performance evaluation

The product was evaluated in Round 2 and Round 6 of WHO/FIND product testing of RDTs for malaria antigen detection was completed in 2009 and 2015. The product was evaluated against a *Plasmodium falciparum* cultured line panel, *P. falciparum* wild type parasite panel, *P. vivax* wild type parasite panel and a *P. falciparum* 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.

For Round 2, the following results were observed: *P. falciparum* panel detection score (96.0% at 200 parasites/ $\mu$ l), *P. vivax* panel detection score (95.0% at 200 parasites/ $\mu$ l), false-positive rates (3.5% for clean negatives, 0% for *P. falciparum* at 200 parasites/ $\mu$ l, 0% for *P. vivax* at 200 parasites/ $\mu$ l, 100% for *P. falciparum* at 2000 or 5000 parasites/ $\mu$ l, 100% for *P. vivax* at 2000 or 5000 parasites/ $\mu$ l) and invalid rate (0.2%).

For Round 6, the following results were observed: *P. falciparum* panel detection score (92.0% at 200 parasites/ $\mu$ l), *P. vivax* panel detection score (94.30% at 200 parasites/ $\mu$ l), false-positive rates (1.9% for clean negatives, 0.5% for *P. falciparum* at 200 parasites/ $\mu$ l, 0.7% for *P. vivax* at 200 parasites/ $\mu$ l, 100% for *P. falciparum* at 2000 or 5000 parasites/ $\mu$ l, 100% for *P. vivax* at 2000 or 5000 parasites/ $\mu$ l) and invalid rate (0.2%).

Summary performance characteristics	Panel detection score		False positive rate (%)			Invalid rate (%)
	200 parasites/ $\mu$ l		200 parasites/ $\mu$ l		Clean negatives	
	Pf	Pv	Pf	Pv		
Round 2	96.0	95.0	0	0	3.5	0.2
Round 6	92.0	94.3	0.5	0.7	1.9	0.0

Based on these results, the performance evaluation for Bioline Malaria Ag P.f/P.v meets the WHO prequalification requirements.

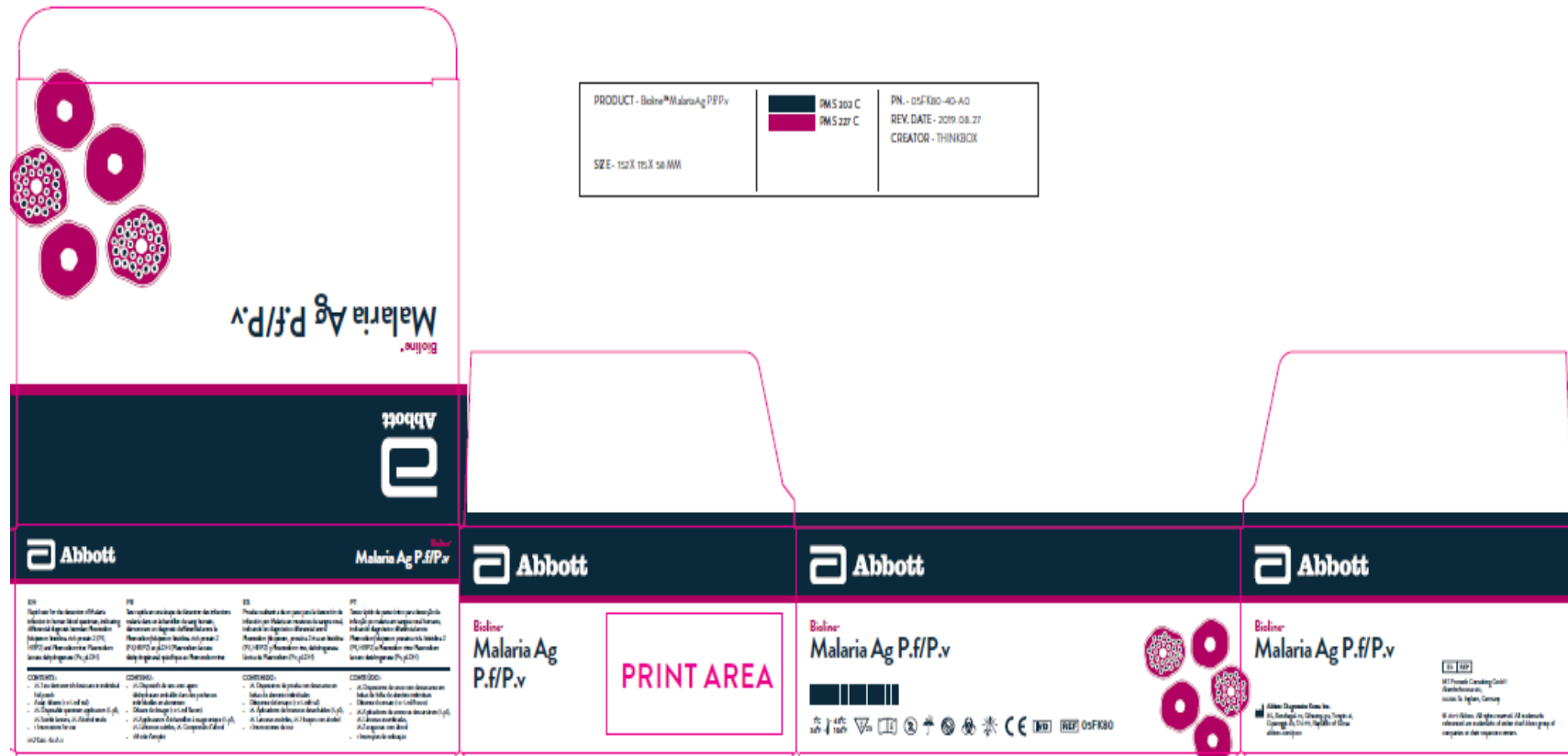
## Labelling

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

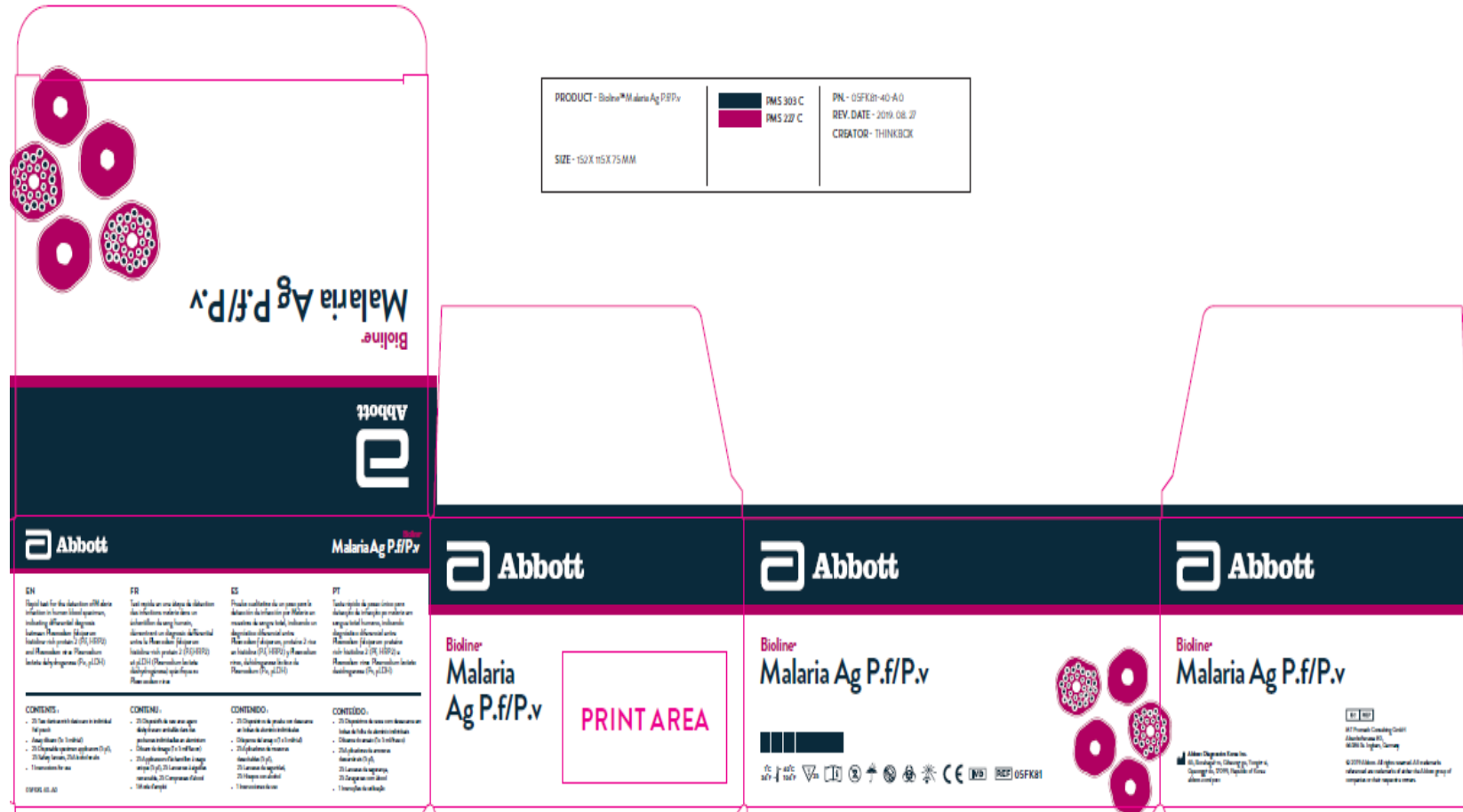
*\*Note: Labelling has been changed as per site name change and product rebranding. But temporarily labelling of legacy brand (SD BIOLINE) will be used in the market according to registration status in each country.*

# 1. Labels

## 1.1 Package box for 05FK80

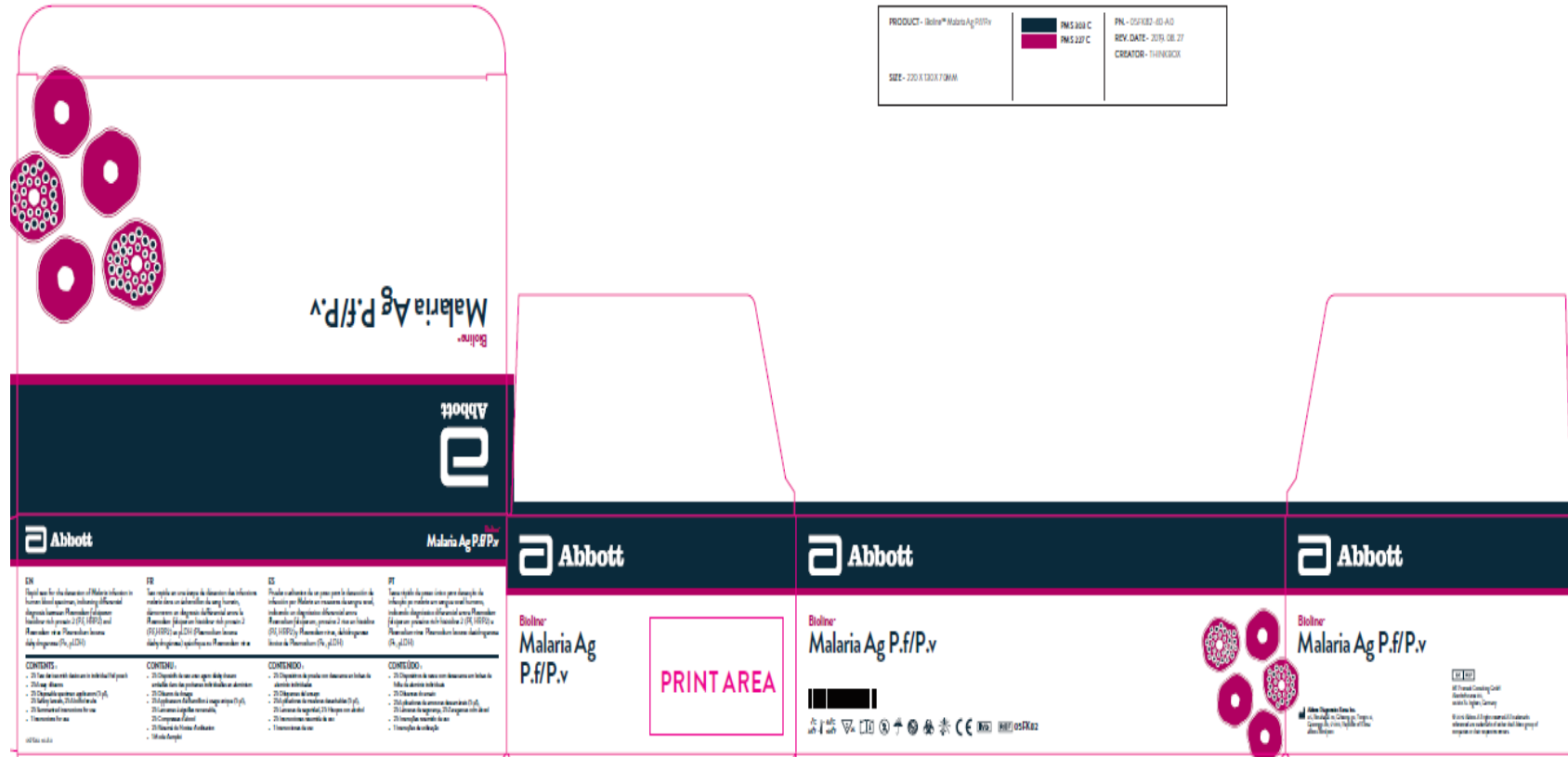


### 1.2 Package box for 05FK81

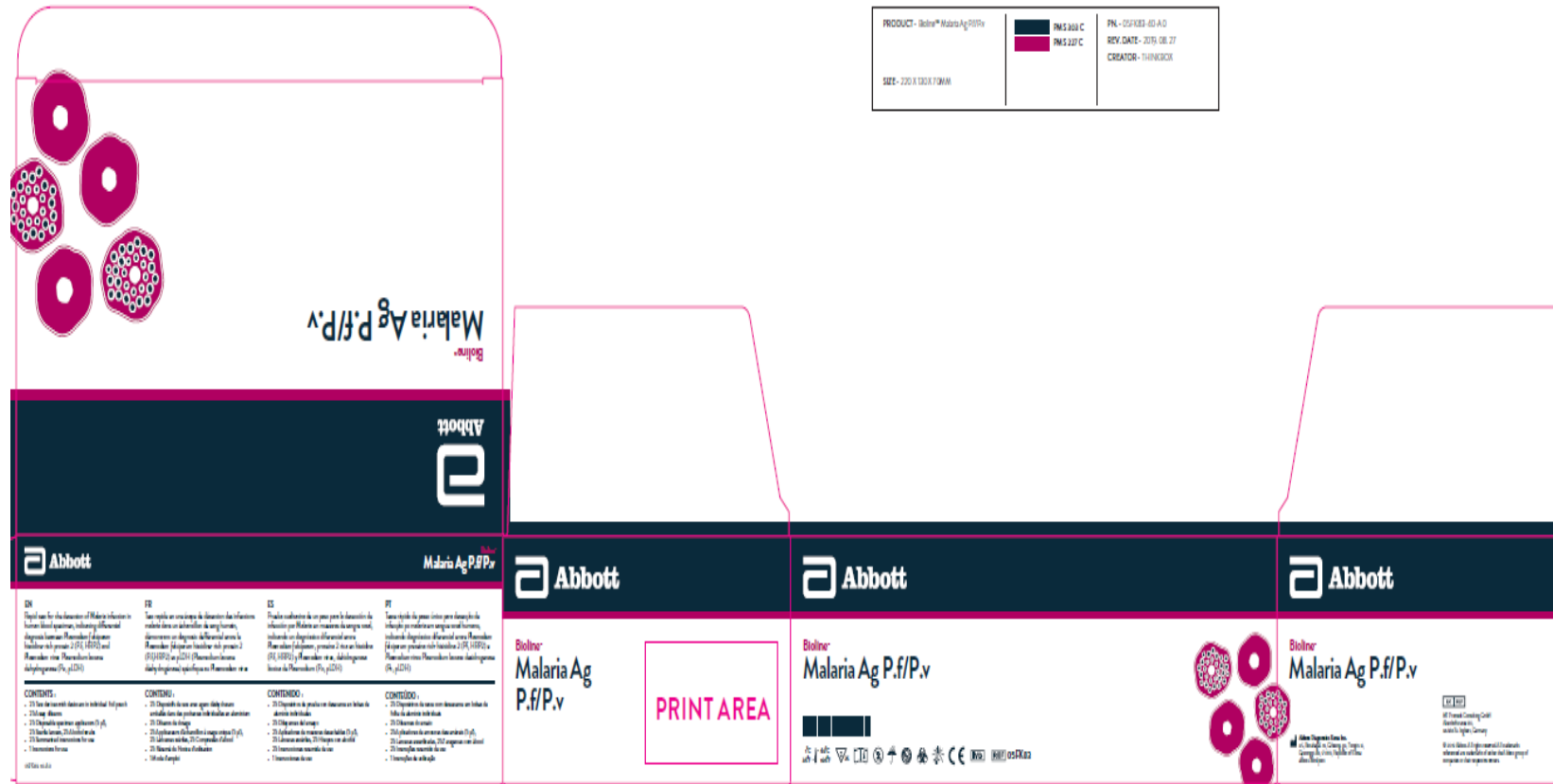




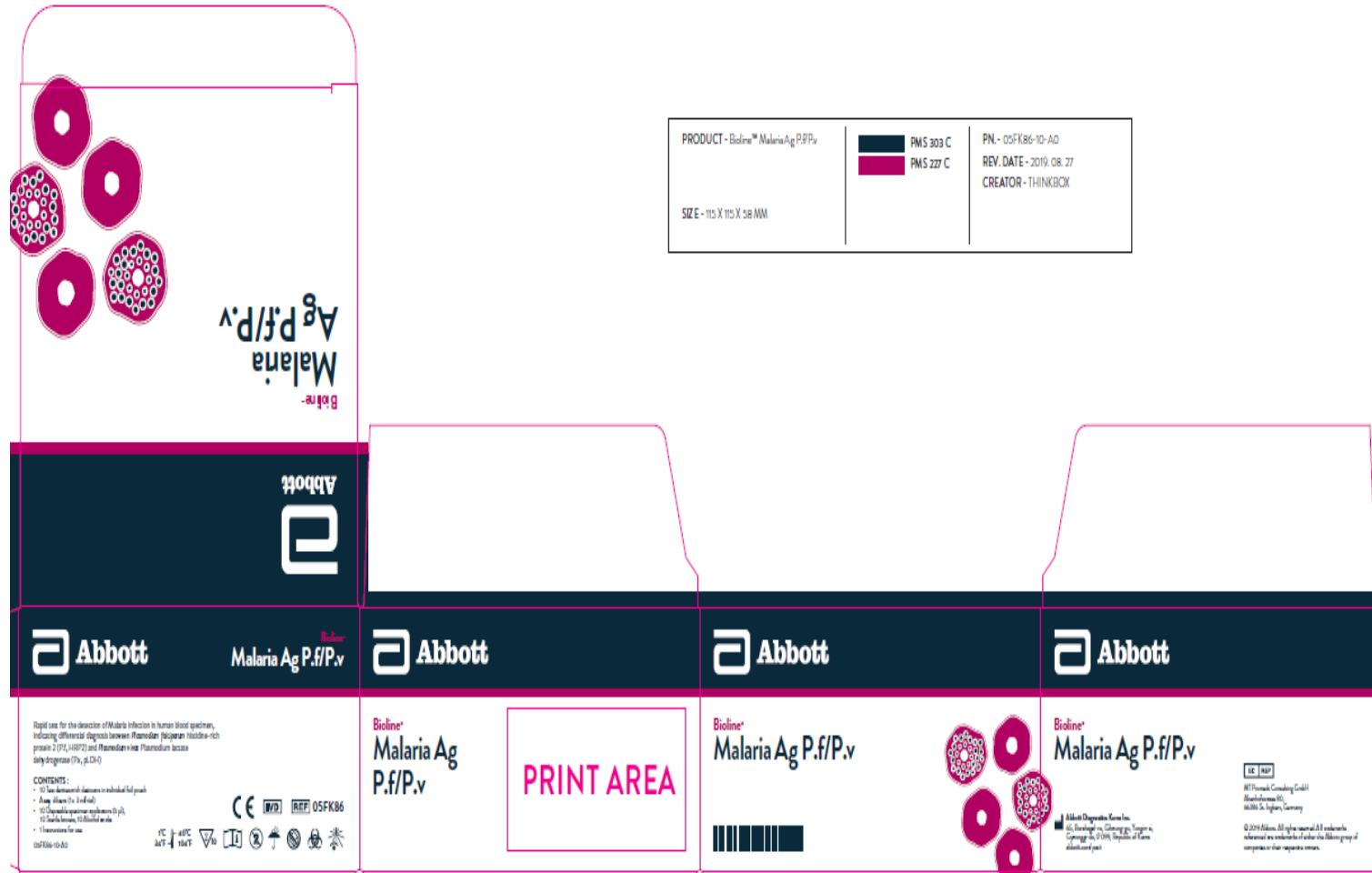
### 1.3 Package box for 05FK82



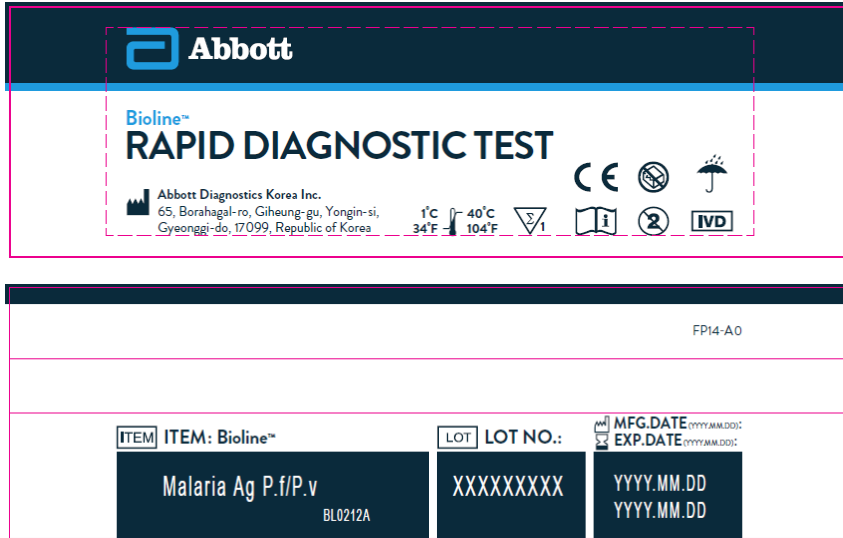
### 1.4 Package box for 05FK83



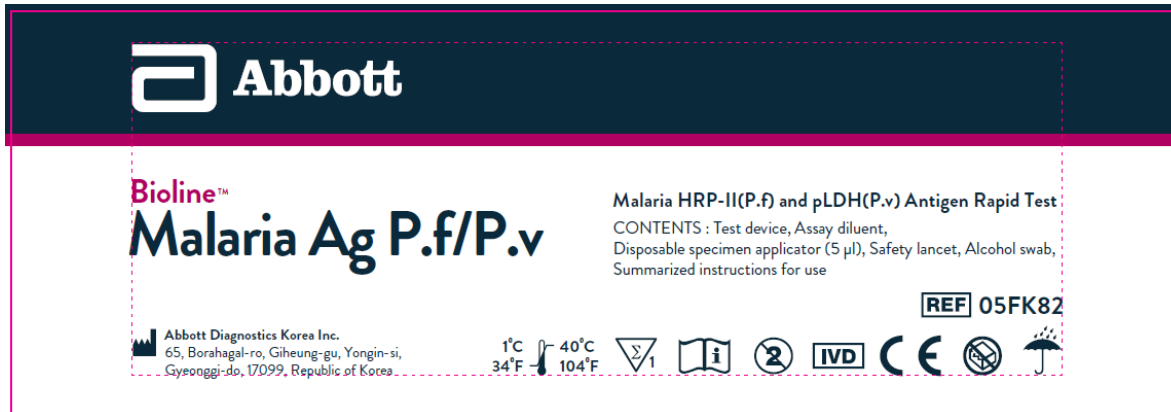
### 1.5 Package box for 05FK86



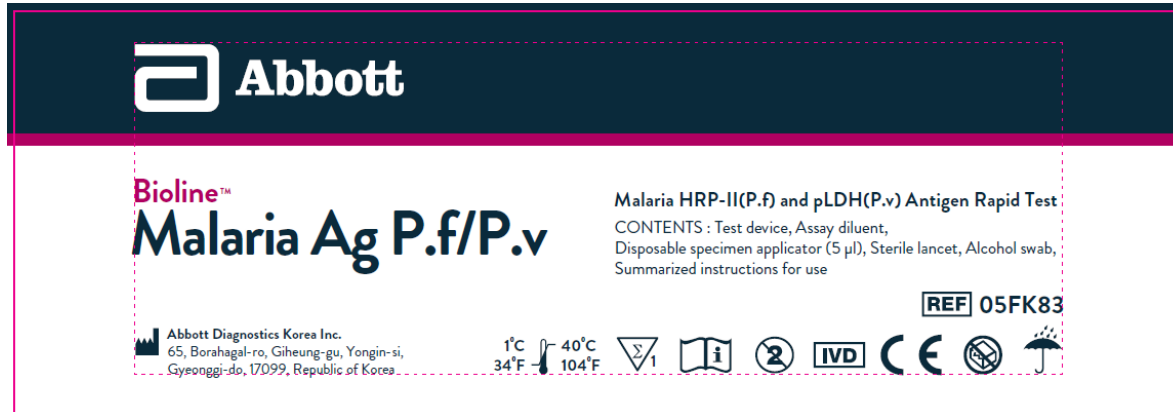
### 1.6 Device pouch for 05FK80, 05FK81, 05FK82, 05FK83, 05FK86



### 1.7 Outer Pouch for\_05FK82



### 1.8 Outer Pouch for\_05FK83



## 2. Instructions for use<sup>4</sup>

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<sup>4</sup> 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.

## **2.1 IFU for 05FK80**







Abbott

# Bioline™ Malaria Ag P.f/P.v

Malaria HRP2 (P.f) and pLDH (P.v) Antigen Rapid Test  
Test de detection rapide en une etape des antigenes HRP2(P.f) et pLDH (Pan) du paludisme  
Prueba Rápida de un paso para la detección de antígenos de Malaria HRP2(P.f) y pLDH(Pan)  
Teste rápido de passo único para detecção dos antígenos HRP2 (P.f) e pLDH (Pan) da Malária

## PREPARATION / PRÉPARATION / PREPARACIÓN / PREPARAÇÃO

- EN** Open the package and look for the following:
  1. Test device with desiccant in individual foil pouch
  2. Assay diluent
  3. Disposable specimen applicator (5 µl)
  4. Sterile lancet
  5. Alcohol swab
  6. Instructions for use
- FR** Ouvrir le kit et vérifier les éléments suivants:
  1. Dispositif de test avec agent déshydratant emballés dans des pochette individuelles en aluminium
  2. Diluant de dosage
  3. Applicateur d'échantillon à usage unique (5 µl)
  4. Lancette stériles
  5. Compresses d'alcool
  6. Mode d'emploi

- ES** Abra el empaque y busque a continuación:
  1. Dispositivo de prueba con desecante en bolsa de papel de aluminio individuales
  2. Diluyentes del ensayo
  3. Aplicadores de muestras desechables (5 µl)
  4. Lanceta estériles
  5. Hisopo con alcohol
  6. Instrucciones de uso
- PT** Abra a embalagem e observe abaixo:
  1. Dispositivo de teste com dessecante em bolsa de folha de alumínio individuais
  2. Diluente de ensaio
  3. Aplicadores de amostras descartáveis (5 µl)
  4. Lanceta esterilizada
  5. Zaragatoas com álcool
  6. Instruções de utilização

### Disposable specimen applicator (5 µl) / Applicateur d'échantillon à usage unique (5 µl) / Aplicadores de muestras desechables (5 µl) / Aplicadores de amostras descartáveis (5 µl)

Capillary pipette  
Pipette capillaire  
Pipeta capilar  
Pipeta capilar

**Or / Ou  
O bien**

Disposable inverted cup  
Une cupule de prélèvement à usage unique  
Pipeta invertida desechable  
Ventosa invertida descartáveis

- EN** First, carefully read the instructions for using the Bioline™ Malaria Ag P.f/P.v test kit.
- FR** Commencer par lire attentivement le mode d'emploi du kit de Bioline™ Malaria Ag P.f/P.v.

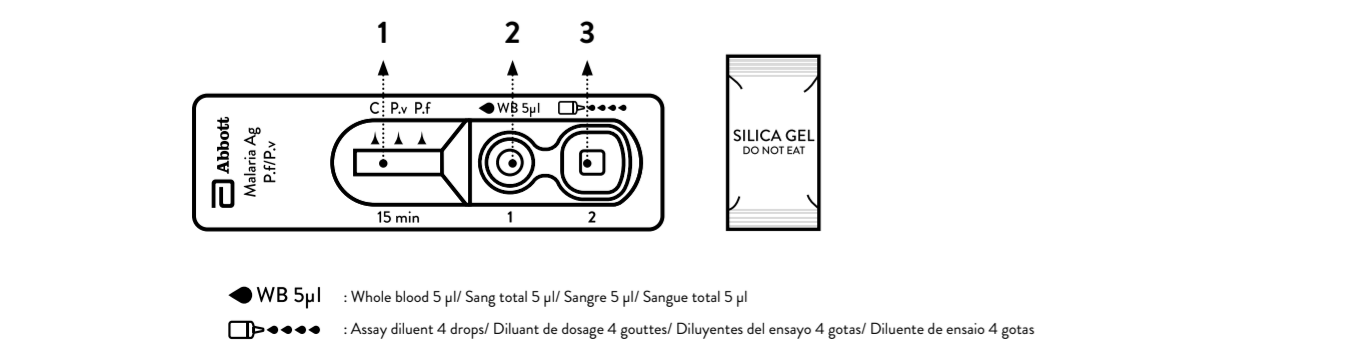
- ES** Primero, lea detenidamente las instrucciones de uso del kit de análisis Bioline™ Malaria Ag P.f/P.v.
- PT** Primeiro, leia cuidadosamente as instruções para utilizar o kit de teste Bioline™ Malaria Ag P.f/P.v.

- EN** Next, look at the expiration date on the back of the foil pouch. If the expiration date has passed, use another lot. To avoid false results, ensure that the assay diluent used is from the same kit as the new test device.
- FR** Vérifier ensuite la date d'expiration à l'arrière de l'emballage en aluminium. Si la date d'expiration est dépassée, utiliser un autre lot. Pour éviter tout faux résultat, s'assurer que le diluant du test utilisé provient du même kit que le nouveau dispositif de test.

- ES** A continuación, compruebe la fecha de caducidad en la parte posterior de la bolsa de papel de aluminio. Si la fecha de caducidad ha vencido, utilice otro lote. Para evitar resultados falsos, asegúrese de que el diluyente del ensayo utilizado es del mismo kit que el dispositivo de prueba nuevo.
- PT** A seguir, verifique o prazo de validade na parte posterior da bolsa de folha de alumínio. Se o prazo de validade tiver sido ultrapassado, utilize outro lote. Para evitar resultados falsos, certifique-se de que o diluente do ensaio utilizado é do mesmo kit que o novo dispositivo do teste.

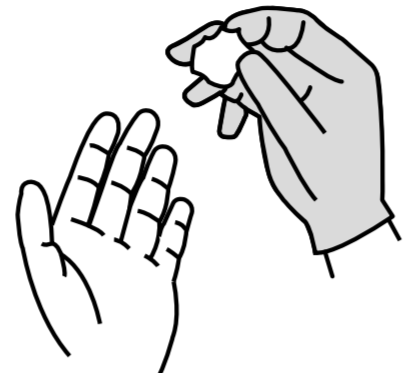
- EN** Open the foil pouch and look for the following:
  1. Result window
  2. Specimen well
  3. Assay diluent well
 Then, label the device with the patient identifier.
- FR** Ouvrir l'enveloppe et vérifier les élément suivants:
  1. Fenêtre de résultat
  2. Puits d'échantillon
  3. Puits pour le diluant
 Étiqueter ensuite le dispositif avec l'identifiant patient.

- ES** Abra la bolsa de aluminio y busque lo siguiente:
  1. Ventana de resultados
  2. Pocillo de muestra
  3. Pocillo para diluyente de prueba
 A continuación, etiquete el dispositivo de prueba con la identificación del paciente.
- PT** Abra a bolsa de folha de alumínio e verifique se contém os seguintes itens:
  1. Janela de resultados
  2. Poço da amostra
  3. Poço para o diluente do ensaio
 Em seguida, coloque uma etiqueta no dispositivo com o identificador do paciente.



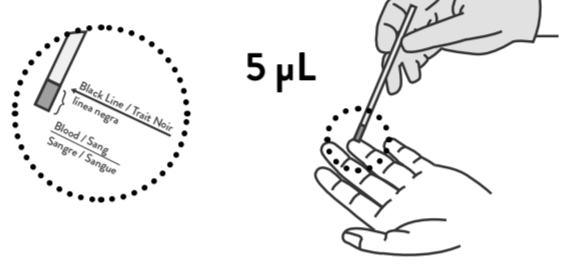
## TEST PROCEDURE / PROCÉDURE DE TEST / PROCEDIMIENTO DE LA PRUEBA / PROCEDIMENTO DO TESTE

- EN** Clean the area to be lanced with an alcohol swab.
- FR** Nettoyer la surface à prélever à l'aide d'un tampon imbibé d'alcool.
- ES** Limpie el área a ser pinchada con un copo de algodón humedecido con alcohol.
- PT** Limpe a área a ser lancetada com swab de álcool.

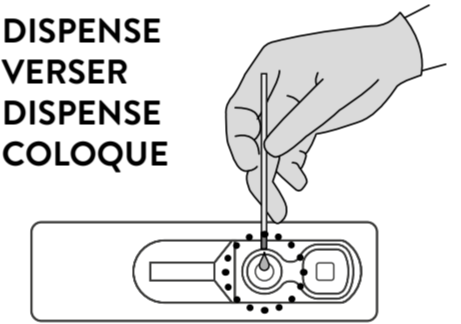


### Capillary pipette / Pipette capillaire / Pipeta capilar / Pipeta capilar

- EN** Using a 5 µl capillary pipette provided, draw blood to black line.
- FR** Avec une pipette capillaire de 5 µl, aspirer le sang jusqu'au trait noir.
- ES** Con una pipeta capilar de 5 µl, extraiga sangre hasta la línea negra.
- PT** Com uma pipeta capilar de 5 µl, desloque o sangue para a linha preta.

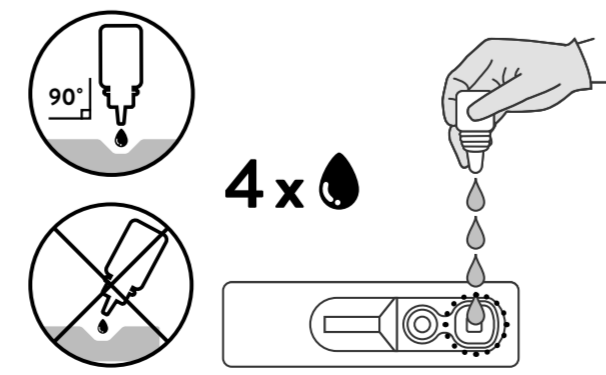


- EN** Dispense 5 µl of drawn blood into round specimen well.
- FR** Verser 5 µl de sang total prélevé dans le puits d'échantillon rond.
- ES** Dispense 5 µl de la sangre extraída al pocillo para muestras redondo.
- PT** Coloque 5 µl de sangue recolhido no poço redondo da amostra.

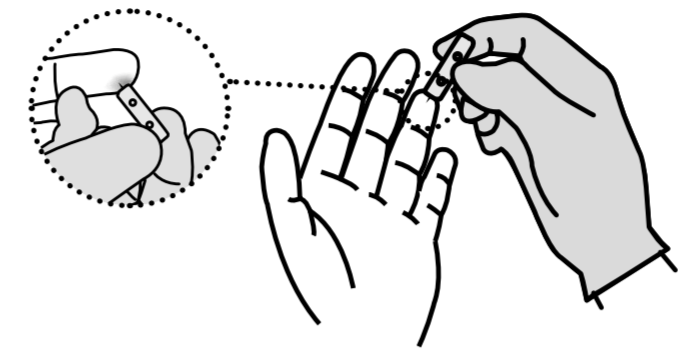


- EN** Hold assay diluent bottle vertically and dispense 4 drops of assay diluent into the assay diluent well. Exactly, 4 drops should be added. Do not let bottle tip touch device in order to avoid cross-contamination.

- FR** Maintenir le flacon de diluant du dosage à la verticale et déposer 4 gouttes de diluant dans le puits de diluant. 4 gouttes doivent être ajoutées très exactement. Ne pas mettre l'embout du flacon en contact avec le dispositif afin d'éviter toute contamination croisée.
- ES** Sostenga en posición vertical el frasco del diluyente del ensayo y dispense 4 gotas de diluyente en el pocillo del diluyente del ensayo. Deben añadirse exactamente 4 gotas. No deje que la punta del frasco toque el dispositivo a fin de evitar la contaminación cruzada.
- PT** Mantenha o frasco de diluente do ensaio na posição vertical e deite 4 gotas de diluente do ensaio no poço para o diluente do ensaio. Devem ser adicionadas, exatamente, 4 gotas. Não deixe a ponta do frasco tocar no dispositivo de modo a evitar a contaminação cruzada.

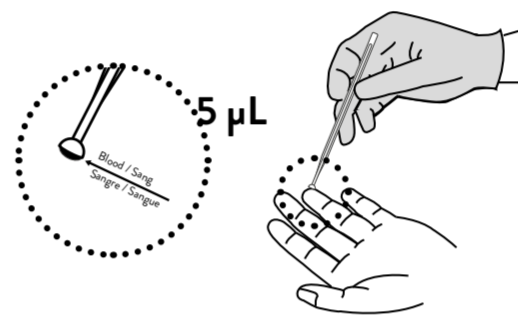


- EN** Prick the lateral side of the finger with the sterile lancet provided. Then, safely dispose of the lancet immediately after.
- FR** Piquer le côté latéral du doigt avec la lancette stérile fournie. Jeter la lancette immédiatement après conformément aux règles de sécurité.
- ES** Pinche el lado del dedo con la lanceta estéril suministrada. Deseche de forma segura la lanceta inmediatamente después.
- PT** Pique a lateral do dedo com a lanceta esterilizada fornecida. Em seguida, elimine a lanceta em segurança imediatamente após a utilização.

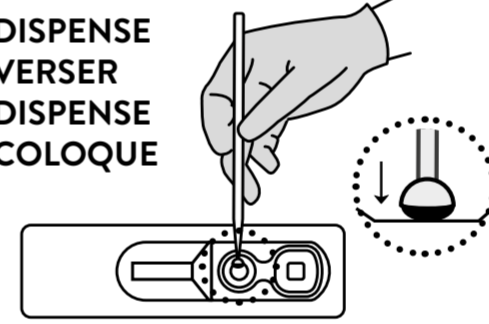


### Disposable inverted cup / Une cupule de prélèvement à usage unique / Pipeta invertida desechable / Ventosa invertida descartáveis

- EN** Using a disposable inverted cup (5 µl) provided, dip the circular end of a inverted cup into the blood specimen.
- FR** Prendre l'anse jetable (5 µl), tremper le bout circulaire de l'anse dans l'échantillon de sang.
- ES** Tome una pipeta invertida desechable (5 µl) sumitrada y sumerja el extremo circular de la pipeta invertida en la muestra de sangre.
- PT** Pegue numa das ventosas invertidas descartáveis (5 µl) fornecidas, coloque a extremidade circular da ventosa na amostra de sangue.



- EN** Dispense 5 µl of drawn blood into round specimen well touching pad.
- FR** Verser 5 µl de sang prélevé dans le puits d'échantillon en touchant le tampon.
- ES** Dispense 5 µl de la sangre extraída en el pocillo para muestras redondo tocando la almohadilla.
- PT** Coloque 5 µl de sangue recolhido no poço redondo da amostra tocando no espaço.



- EN** Use Inverted cup : Let the circular end of the inverted cup touch the pad, then press down lightly.
- FR** Avec la cupule de prélèvement : Laisser l'extrémité circulaire de la cupule de prélèvement toucher le tampon, puis appuyer légèrement.
- ES** Uso de la pipeta invertida: Deje que el extremo circular de la pipeta invertida entre en contacto con la almohadilla y presione ligeramente.
- PT** Use o copo invertido: Deixe que a extremidade circular do copo invertido toque na almofada e, em seguida, faça uma ligeira pressão para baixo.

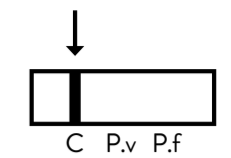
- EN** Interpret test results 15 minutes (up to 30 minutes) after adding assay diluent. Reading outside of this time frame (before 15 min or after 30 min) may provide false results.

- FR** Interpréter les résultats du test 15 minutes (30 minutes maximum) après avoir ajouté le diluant du dosage. Un relevé hors de la période prescrite (avant 15 min ou après 30 min) peut donner lieu à de faux résultats.
- ES** Interprete los resultados de la prueba 15 minutos (hasta 30 minutos) después de agregar el diluyente del ensayo. La lectura fuera de este marco temporal (antes de 15 minutos o después de 30 minutos) puede generar resultados falsos.
- PT** Interprete os resultados do teste 15 minutos (no máximo até 30 minutos) após adicionar o diluente do ensaio. Efetuar a leitura fora deste intervalo de tempo (antes dos 15 minutos ou após os 30 minutos) pode fornecer resultados incorretos.



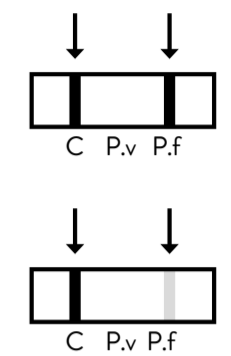
## INTERPRETATION / INTERPRÉTATION / INTERPRETACIÓN / INTERPRETAÇÃO

- EN** No malaria P.f/P.v antigen  
One line "C" in the result window
- FR** Pas d'antigène P.f/P.v de la malaria  
Une ligne « C » dans la fenêtre de résultats
- ES** Ningún antígeno de malaria P.f/P.v  
Una línea "C" en la ventana de resultados.
- PT** Sem antígeno da Malária P.f/P.v  
Uma linha "C" na janela de resultados

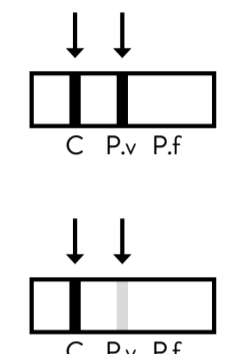


## POSITIVE / POSITIF / POSTIVO

- P.f Positive / Positif à P.f / P.f Positivo**
- EN** Two colored bands (test line "P.f" and control line "C")  
⚠ **Caution** : It is positive even if "P.f" line is faint.
- FR** Deux bandes de couleurs (ligne de test « P.f » et ligne de contrôle « C »)  
⚠ **Mise en garde** : Le test est positif même si la ligne « P.f » est pâle.
- ES** Dos bandas de color (línea de prueba "P.f" y línea de control "C")  
⚠ **Precaución** : Es positivo incluso si la línea "P.f" es débil.
- PT** Duas bandas coloridas (linha teste "P.f" e linha controle "C")  
⚠ **Atenção** : É positivo mesmo se a linha "P.f" for tênue.

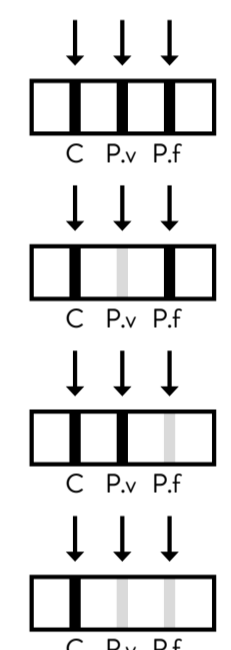


- P.v Positive / Positif à P.v / P.v Positivo**
- EN** Two colored bands (test line "P.v" and control line "C")  
⚠ **Caution** : It is positive even if "P.v" line is faint.
- FR** Deux bandes de couleurs (ligne de test « P.v » et ligne de contrôle « C »)  
⚠ **Mise en garde** : Le test est positif même si la ligne « P.v » est pâle.
- ES** Dos bandas de color (línea de prueba "P.v" y línea de control "C")  
⚠ **Precaución** : Es positivo incluso si la línea "P.v" es débil.
- PT** Duas bandas coloridas (linha teste "P.v" e linha controle "C")  
⚠ **Atenção** : É positivo mesmo se a linha "P.v" for tênue.



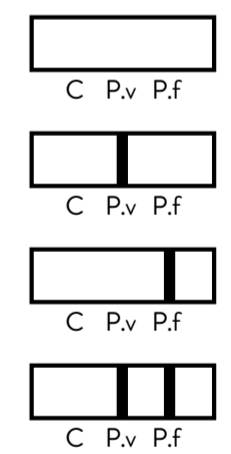
### Mixed infection of P.f and P.v / Infection croisée à P.f et P.v / Infección mixta de P.f y P.v / Infecção mista de P.f e P.v

- EN** Three colored bands (test lines "P.f", "P.v" and control line "C")  
⚠ **Caution** : It is positive even if "P.f" and/or "P.v" line(s) are faint.
- FR** Trois bandes de couleurs (lignes de test « P.f » et « P.v » et ligne de contrôle « C »)  
⚠ **Mise en garde** : Le test est positif même si les lignes « P.f » et/ou « P.v » sont pâles.
- ES** Tres bandas de color (líneas de prueba "P.f", "P.v" y control "C")  
⚠ **Precaución** : Es positivo incluso si las líneas "P.f" y/o "P.v" son débiles.
- PT** Três bandas coloridas (linhas teste "P.f" e "P.v" e linha controle "C")  
⚠ **Atenção** : É positivo mesmo se as linhas "P.f" e/ou "P.v" forem tênues.



## INVALID / NON VALIDE / INVÁLIDO / INVÁLIDO

- EN** If the Control Line "C" is not visible within the result window after performing the test, the result is considered invalid. Instructions may not have been followed correctly or the test may have deteriorated beyond the expiration date. It is recommended that the specimen be retested using a new test device.
- FR** Si la ligne de contrôle « C » n'est pas visible dans la fenêtre de résultat après avoir réalisé le test, le résultat est considéré comme non valide. Il se peut que les instructions n'aient pas été suivies correctement ou que le test se soit détérioré au-delà de la date de péremption. Il est conseillé d'analyser à nouveau l'échantillon à l'aide d'un nouveau dispositif de test.
- ES** Si la línea de control "C" no es visible en la ventana de resultados después de realizar la prueba, el resultado se considera no válido. Es posible que no se hayan seguido las instrucciones correctamente o que la prueba se haya deteriorado por haber superado la fecha de caducidad. Se recomienda volver a analizar la muestra usando un nuevo dispositivo de prueba.
- PT** Se a linha de controle "C" não estiver visível dentro da janela dos resultados após a realização do teste, o resultado é considerado inválido. As instruções podem não ter sido seguidas corretamente ou o teste pode ter-se deteriorado para além da data de validade. Recomenda-se que a amostra seja novamente testada utilizando um novo dispositivo de teste.



<b>1°C - 40°C</b> 34°F - 104°F	Store at 1 - 40°C (34°F - 104°F) Conserver entre 1 et 40°C (34°F - 104°F) Almacenar entre 1 y 40°C (34°F - 104°F) Armazenar entre 1 - 40°C (34°F - 104°F)	<b>LOT</b> Lot Number No. de lot Número de Lote Número de lote	<b>Manufacturer</b> Fabricant Fabricante Fabricante	Do not use if packaging is damaged
<b>IVD</b>	For in vitro diagnostic use only Pour diagnostic in vitro uniquement Solo para uso de diagnóstico in vitro Somente para uso de diagnóstico in vitro	<b>REF</b> Catalog Number Code produit Número de Referência Número de Catálogo	<b>Date of manufacture</b> Date de fabrication Fecha de fabricación Data de fabricação	Keep dry Conserver au sec Manténgase seco Conservar seco
Do not reuse Usage unique Ne Réutiliser Não reutilizar	<b>EC REP</b> Authorized Representative Représentante autorisé Representante autorizado Representante autorizado	<b>CE</b>	<b>CE marking according to IVD</b> Medical Devices Directive 98/79/EC Marquage CE conformément à la directive sur les dispositifs médicaux de diagnostic in vitro 98/79/CE Marcado CE conforme a la Directiva 98/79/CE relativa a los productos sanitarios para diagnóstico in vitro Marcação CE de acordo com a Diretiva 98/79/CE relativa aos dispositivos médicos de diagnóstico in vitro	Biological Risk Risques biologiques Riscos biológicos
Use By Date de péremption Fecha de caducidad Utilizar até	<b>i</b> Instructions for use Attention, voir mode d'emploi Atenção, ver Instruções de uso Atenção, ver Instruções de uso	Caution Mise en garde Precaución Atenção		Keep away from sunlight Conserver à l'abri de la lumière du soleil Manténgase fuera de la luz del sol Mantenha afastado da luz solar
Contains sufficient for X tests Permet de réaliser X tests Contenido suficiente para X pruebas Contém o suficiente para X testes				

## **2.2 IFU for 05FK81**



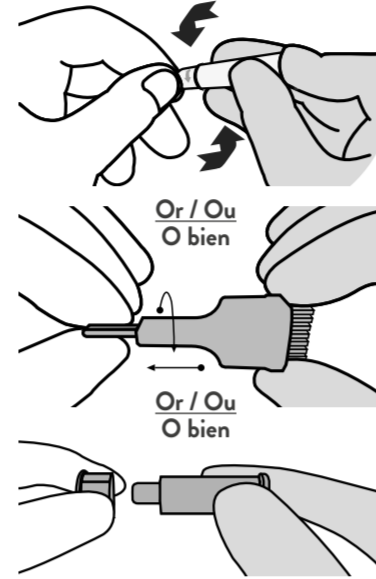
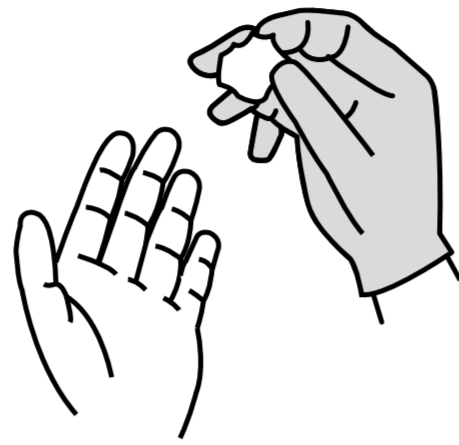


# Bioline™ Malaria Ag P.f/P.v

Malaria HRP2 (P.f) and pLDH (P.v) Antigen Rapid Test  
Test rapide en une étape de détection d'antigènes HRP2 (P.f) et pLDH (P.v) du paludisme  
Prueba rápida en un paso para determinación de Ag Malaria HRP2 (P.f) y pLDH (P.v)  
Teste rápido de passo único para detecção de antígeno de malária HRP2 (P.f) e pLDH (P.v)

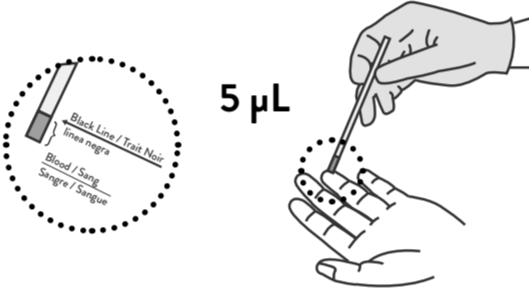
## PREPARATION / PRÉPARATION / PREPARACIÓN / PREPARAÇÃO

- 1 EN** Open the package and look for the following:
  1. Test device with desiccant in individual foil pouch
  2. Assay diluent
  3. Disposable specimen applicator (5 µl)
  4. Safety lancet
  5. Alcohol swab
  6. Instructions for use
- FR** Ouvrir le kit et vérifier les éléments suivants:
  1. Dispositif de test avec agent déshydratant emballés dans des pochette individuelles en aluminium
  2. Diluant de dosage
  3. Applicateur d'échantillon à usage unique (5 µl)
  4. Lancette à aiguille retractable
  5. Compresses d'alcool
  6. Mode d'emploi
- ES** Abra el empaque y busque a continuación:
  1. Dispositivo de prueba con desecante en bolsa de papel de aluminio individuales
  2. Diluyentes del ensayo
  3. Aplicadores de muestras desechables (5 µl)
  4. Lanceta de seguridad
  5. Hisopo con alcohol
  6. Instrucciones de uso
- PT** Abra a embalagem e observe abaixo:
  1. Dispositivo de teste com dessecante em bolsa de folha de alumínio individuais
  2. Diluente de ensaio
  3. Aplicadores de amostras descartáveis (5 µl)
  4. Lanceta de segurança
  5. Zaragatoa com álcool
  6. Instruções de utilização

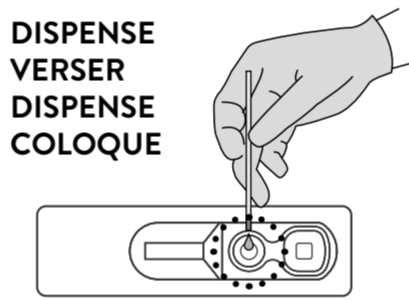


## Capillary pipette / Pipette capillaire / Pipeta capilar / Pipeta capilar

- 4 EN** Using a capillary pipette, draw blood to black line.
- FR** Avec une pipette capillaire, aspirer le sang jusqu'au trait noir.
- ES** Con una pipeta capilar, extraiga sangre hasta la línea negra.
- PT** Com uma pipeta capilar, desloque o sangue para a linha preta.



- 5 EN** Dispense 5 µl of drawn blood into round specimen well.
- FR** Verser 5 µl de sang prélevé dans le puits d'échantillon rond.
- ES** Dispense 5 µl de la sangre extraída en el pocillo para muestras redondo.
- PT** Coloque 5 µl de sangue recolhido no poço redondo da amostra.

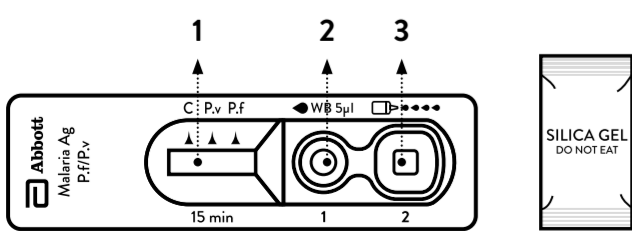


- 2 EN** First, carefully read the instructions for using the Bioline™ Malaria Ag P.f/P.v test kit.
- FR** Commencer par lire attentivement le mode d'emploi du kit de Bioline™ Malaria Ag P.f/P.v.
- ES** Primero, lea detenidamente las instrucciones de uso del kit de análisis Bioline™ Malaria Ag P.f/P.v.
- PT** Primeiro, leia cuidadosamente as instruções para utilizar o kit de teste Bioline™ Malaria Ag P.f/P.v.

- 3 EN** Next, look at the expiration date on the back of the foil pouch. If the expiration date has passed, use another lot. To avoid false results, ensure that the assay diluent used is from the same kit as the new test device.
- FR** Vérifier ensuite la date d'expiration à l'arrière de l'emballage en aluminium. Si la date d'expiration est dépassée, utiliser un autre lot. Pour éviter tout faux résultat, s'assurer que le diluant du test utilisé provient du même kit que le nouveau dispositif de test.

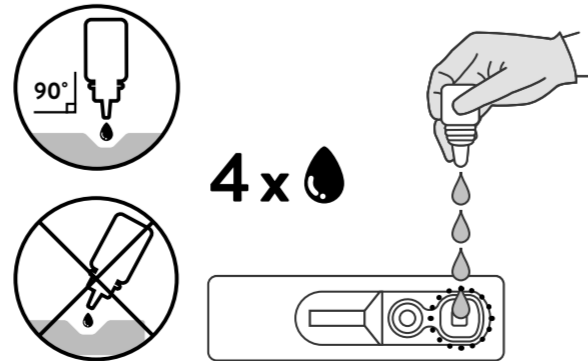
- ES** A continuación, compruebe la fecha de caducidad en la parte posterior de la bolsa de papel de aluminio. Si la fecha de caducidad ha vencido, utilice otro lote. Para evitar resultados falsos, asegúrese de que el diluyente del ensayo utilizado es del mismo kit que el dispositivo de prueba nuevo.
- PT** A seguir, verifique o prazo de validade na parte posterior da bolsa de folha de alumínio. Se o prazo de validade tiver sido ultrapassado, utilize outro lote. Para evitar resultados falsos, certifique-se de que o diluente do ensaio utilizado é do mesmo kit que o novo dispositivo do teste.

- 4 EN** Open the foil pouch and look for the following:
  1. Result window
  2. Specimen well
  3. Assay diluent well
 Then, label the device with the patient identifier.
- FR** Ouvrir l'enveloppe et vérifier les éléments suivants:
  1. Fenêtre de résultat
  2. Puits d'échantillon
  3. Puits pour le diluant
 Étiqueter ensuite le dispositif avec l'identifiant patient.
- ES** Abra la bolsa de aluminio y busque lo siguiente:
  1. Ventana de resultados
  2. Pocillo de muestra
  3. Pocillo para diluyente de prueba
 A continuación, etiquete el dispositivo de prueba con la identificación del paciente.
- PT** Abra a bolsa de folha de alumínio e verifique se contém os seguintes itens:
  1. Janela de resultados
  2. Poço da amostra
  3. Poço para o diluente do ensaio
 Em seguida, coloque uma etiqueta no dispositivo com o identificador do paciente.



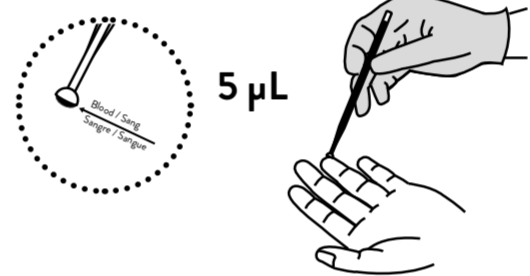
WB 5µl : Whole blood 5 µl / Sang total 5 µl / Sangre 5 µl / Sangue total 5 µl  
: Assay diluent 4 drops / Diluant de dosage 4 gouttes / Diluyentes del ensayo 4 gotas / Diluente de ensaio 4 gotas

- 6 EN** Hold assay diluent bottle vertically and dispense 4 drops of assay diluent into the assay diluent well. Exactly, 4 drops should be added. Do not let bottle tip touch device in order to avoid cross-contamination.
- FR** Maintenir le flacon de diluant du dosage à la verticale et déposer 4 gouttes de diluant dans le puits de diluant. 4 gouttes doivent être ajoutées très exactement. Ne pas mettre l'embout du flacon en contact avec le dispositif afin d'éviter toute contamination croisée.
- ES** Sostenga en posición vertical el frasco del diluyente del ensayo y dispense 4 gotas de diluyente en el pocillo del diluyente del ensayo. Deben añadirse exactamente 4 gotas. No deje que la punta del frasco toque el dispositivo a fin de evitar la contaminación cruzada.
- PT** Mantenha o frasco de diluente do ensaio na posição vertical e deite 4 gotas de diluente do ensaio no poço para o diluente do ensaio. Devem ser adicionadas, exatamente, 4 gotas. Não deixe a ponta do frasco tocar no dispositivo de modo a evitar a contaminação cruzada.

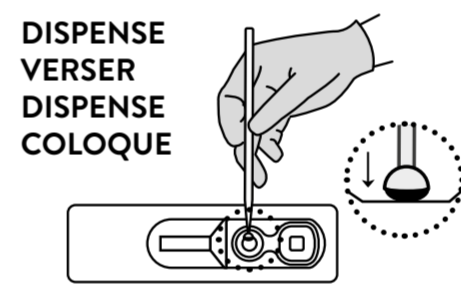


## Disposable inverted cup / Une cupule de prélèvement à usage unique / Pipeta invertida desechable / Ventosa invertida descartáveis

- 4 EN** Using a disposable inverted cup provided, dip the circular end of a inverted cup into the blood specimen.
- FR** Prendre une cupule de prélèvement à usage unique fournie, immerger l'extrémité circulaire dans l'échantillon de sang.
- ES** Tome una pipeta invertida desechable suministrada y sumerja el extremo circular de la pipeta invertida en la muestra de sangre.
- PT** Pegue numa das ventosas invertidas descartáveis fornecidas, coloque a extremidade circular da ventosa na amostra de sangue.



- 5 EN** Dispense 5 µl of drawn blood into round specimen well touching pad.
- FR** Verser 5 µl de sang prélevé dans le puits d'échantillon rond qui touche le tampon.
- ES** Dispense 5 µl de la sangre extraída en el pocillo para muestras redondo tocando la almohadilla.
- PT** Coloque 5 µl de sangue recolhido no poço redondo da amostra tocando no espaço.



- EN** Use Inverted cup : Let the circular end of the inverted cup touch the pad, then press down lightly.
- FR** Avec la cupule de prélèvement : Laisser l'extrémité circulaire de la cupule de prélèvement toucher le tampon, puis appuyer légèrement.
- ES** Use o copo invertido: Deixe que a extremidade circular do copo invertido toque a almofada de amostra, e aperte levemente para baixo.
- PT** Uso de la pipeta invertida: Deje que el extremo circular de la pipeta invertida entre en contacto con la almohadilla y presione ligeramente.

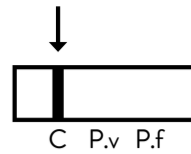
- 7 EN** Interpret test results 15 minutes (up to 30 minutes) after adding assay diluent. Reading outside of this time frame (before 15 min or after 30 min) may provide false results.
- FR** Interpréter les résultats du test 15 minutes (30 minutes maximum) après avoir ajouté le diluant du dosage. Un relevé hors de la période prescrite (avant 15 min ou après 30 min) peut donner lieu à de faux résultats.
- ES** Interprete los resultados de la prueba 15 minutos (hasta 30 minutos) después de agregar el diluyente del ensayo. La lectura fuera de este marco temporal (antes de 15 minutos o después de 30 minutos) puede generar resultados falsos.
- PT** Interprete os resultados do teste 15 minutos (no máximo até 30 minutos) após adicionar o diluente do ensaio. Efetuar a leitura fora deste intervalo de tempo (antes dos 15 minutos ou após os 30 minutos) pode fornecer resultados incorretos.



## INTERPRETATION / INTERPRÉTATION / INTERPRETACIÓN / INTERPRETAÇÃO

### NEGATIVE / NÉGATIF / NEGATIVO

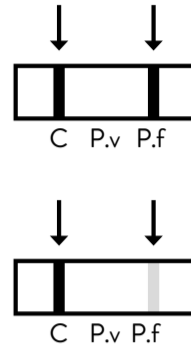
- EN** No malaria P.f/P.v antigen  
One line "C" in the result window
- FR** Pas d'antigène P.f/P.v de la malaria  
Une ligne « C » dans la fenêtre de résultats
- ES** Ningún antígeno de malaria P.f/P.v  
Una línea "C" en la ventana de resultados.
- PT** Sem antígeno da Malária P.f/P.v  
Uma linha "C" na janela de resultados



### POSITIVE / POSITIF / POSTIVO

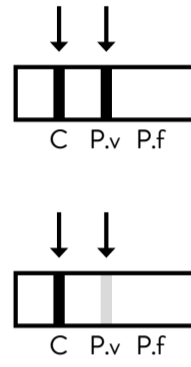
#### P.f Positive / Positif à P.f / P.f Positivo

- EN** Two colored bands (test line "P.f" and control line "C")  
⚠ Caution : It is positive even if "P.f" line is faint.
- FR** Deux bandes de couleurs (ligne de test « P.f » et ligne de contrôle « C »)  
⚠ Mise en garde : Le test est positif même si la ligne « P.f » est pâle.
- ES** Dos bandas de color (línea de prueba "P.f" y línea de control "C")  
⚠ Precaución : Es positivo incluso si la línea "P.f" es débil.
- PT** Duas bandas coloridas (linha teste "P.f" e linha controle "C")  
⚠ Atenção : É positivo mesmo se a linha "P.f" for tênue.



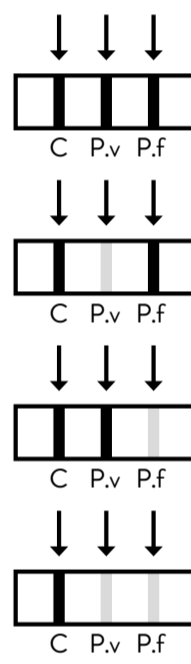
#### P.v Positive / Positif à P.v / P.v Positivo

- EN** Two colored bands (test line "P.v" and control line "C")  
⚠ Caution : It is positive even if "P.v" line is faint.
- FR** Deux bandes de couleurs (ligne de test « P.v » et ligne de contrôle « C »)  
⚠ Mise en garde : Le test est positif même si la ligne « P.v » est pâle.
- ES** Dos bandas de color (línea de prueba "P.v" y línea de control "C")  
⚠ Precaución : Es positivo incluso si la línea "P.v" es débil.
- PT** Duas bandas coloridas (linha teste "P.v" e linha controle "C")  
⚠ Atenção : É positivo mesmo se a linha "P.v" for tênue.



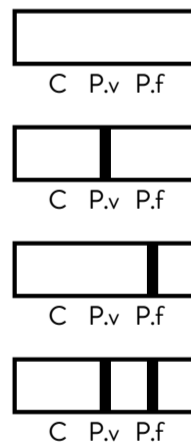
#### Mixed infection of P.f and P.v / Infection croisée à P.f et P.v / Infecção mista de P.f e P.v

- EN** Three colored bands (test lines "P.f", "P.v" and control line "C")  
⚠ Caution : It is positive even if "P.f" and/or "P.v" line(s) are faint.
- FR** Trois bandes de couleurs (lignes de test « P.f » et « P.v » et ligne de contrôle « C »)  
⚠ Mise en garde : Le test est positif même si les lignes « P.f » et/ou « P.v » sont pâles.
- ES** Tres bandas de color (líneas de prueba "P.f", "P.v" y control "C")  
⚠ Precaución : Es positivo incluso si las líneas "P.f" y/o "P.v" son débiles.
- PT** Três bandas coloridas (linhas teste "P.f" e "P.v" e linha controle "C")  
⚠ Atenção : É positivo mesmo se as linhas "P.f" e/ou "P.v" forem tênues.



### INVALID / NON VALIDE / INVÁLIDO / INVÁLIDO

- EN** If the control line "C" is not visible within the result window after performing the test, the result is considered invalid. Instructions may not have been followed correctly or the test may have deteriorated beyond the expiration date. It is recommended that the specimen be retested using a new test device.
- FR** Si la ligne de contrôle « C » n'est pas visible dans la fenêtre de résultat après avoir réalisé le test, le résultat est considéré comme non valide. Il se peut que les instructions n'aient pas été suivies correctement ou que le test se soit détérioré au-delà de la date de péremption. Il est conseillé d'analyser à nouveau l'échantillon à l'aide d'un nouveau dispositif de test.
- ES** Si la línea de control "C" no es visible en la ventana de resultados después de realizar la prueba, el resultado se considera no válido. Es posible que no se hayan seguido las instrucciones correctamente o que la prueba se haya deteriorado por haber superado la fecha de caducidad. Se recomienda volver a analizar la muestra usando un nuevo dispositivo de prueba.
- PT** Se a linha de controlo "C" não estiver visível dentro da janela do resultado após a realização do teste, o resultado é considerado inválido. As instruções podem não ter sido seguidas corretamente ou o teste pode ter-se deteriorado para além da data de validade. Recomenda-se que a amostra seja novamente testada utilizando um novo dispositivo de teste.



## Glossary of symbols / Glossaire des symboles / Glosario de símbolos / Glossário de símbolos

<p>Store at 1 - 40°C (34°F - 104°F) 34°F - 104°F</p> <p>Almacener entre 1 y 40°C (34°F - 104°F) Almacener entre 1 - 40°C (34°F - 104°F)</p>	<p>LOT</p> <p>No. de lot Número de Lote Número de lote</p>	<p>Manufacturer Fabricant Fabricante Fabricante</p>	<p>Do not use if packaging is damaged</p>
<p>IVD</p> <p>For in vitro diagnostic use only Pour diagnostic in vitro uniquement Solo para uso de diagnóstico in vitro</p>	<p>REF</p> <p>Catalog Number Code produit Número de Referência Número de Catálogo</p>	<p>Date of manufacture Date de fabrication Fecha de fabricación Data de fabricação</p>	<p>Keep dry Conserver au sec Manténngase seco Conservar seco</p>
<p>Do not reuse Usage unique No Reutilizar Não reutilizar</p>	<p>EC REP</p> <p>Authorized Representative Représentant autorisé Representante autorizado Representante autorizado</p>	<p>CE</p> <p>CE marking according to IVD Medical Devices Directive 98/79/EC Marquage CE conformément à la directive sur les dispositifs médicaux de diagnostic in vitro 98/79/CE Marcado CE conforme a la Directiva 98/79/CE relativa a los productos sanitarios para diagnóstico in vitro Marcação CE de acordo com a Diretiva 98/79/CE relativa aos dispositivos médicos de diagnóstico in vitro</p>	<p>Biological Risks Risques biologiques Riscos biológicos Riscos biológicos</p>
<p>Use By Date de péremption Fecha de caducidad Utilizar até</p>	<p>Instructions for use Attention, voir mode d'emploi Attention, voir Instructions de use Atenção, ver Instruções de uso</p>	<p>Caution Mise en garde Precaución Atenção</p>	<p>Keep away from sunlight Conserver à l'abri de la lumière du soleil Manténgase fuera de la luz del sol Mantenr afastado da luz solar</p>
<p>Contains sufficient for X tests Permet de réaliser X tests Contenido suficiente para X pruebas Contém o suficiente para X testes</p>			

### **2.3 IFU for 05FK82**

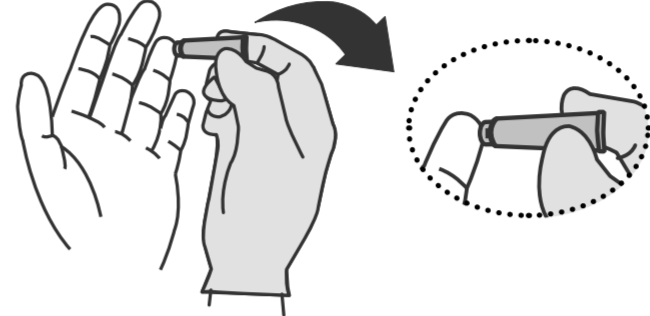
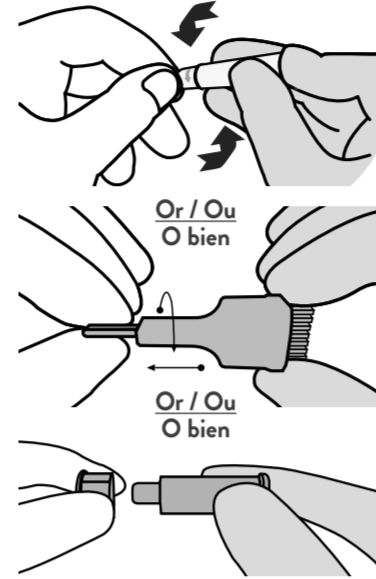
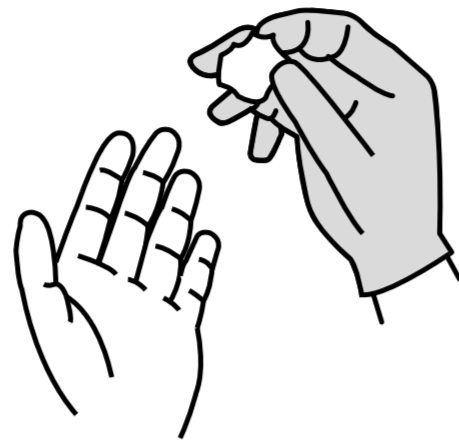


# Bioline<sup>™</sup> Malaria Ag P.f/P.v

Malaria HRP2 (P.f) and pLDH (P.v) Antigen Rapid Test  
 Test rapide en une étape de détection d'antigènes HRP2 (P.f) et pLDH (P.v) du paludisme  
 Prueba rápida en un paso para determinación de Ag Malaria HRP2 (P.f) y pLDH (P.v)  
 Teste rápido de passo único para detecção de antígeno de malária HRP2 (P.f) e pLDH (P.v)

## PREPARATION / PRÉPARATION / PREPARACIÓN / PREPARAÇÃO

- 1** **EN** Open the package and look for the following:
1. Test device with desiccant in individual foil pouch
  2. Assay diluent
  3. Disposable specimen applicator (5 µl)
  4. Safety lancet
  5. Alcohol swab
  6. Summarized instructions for use
  7. Instructions for use
- FR** Ouvrir le kit et vérifier les éléments suivants:
1. Dispositif de test avec agent déshydratant emballés dans des pochette individuelles en aluminium
  2. Diluant de dosage
  3. Applicateur d'échantillon à usage unique (5 µl)
  4. Lancette à aiguille retractable
  5. Compresses d'alcool
  6. Résumé du Notice d'utilisation
  7. Mode d'emploi



- EN** Abra el empaque y busque a continuación:
1. Dispositivo de prueba con desecante en bolsa de papel de aluminio individuales
  2. Diluyente del ensayo
  3. Aplicadores de muestras desechables (5 µl)
  4. Lanceta de seguridad
  5. Hisopo con alcohol
  6. Instrucciones resumida de uso
  7. Instrucciones de uso
- FR** Abra a embalagem e observe abaixo:
1. Dispositivo de teste com dessecante em bolsa de folha de alumínio individuais
  2. Diluente de ensaio
  3. Aplicadores de amostras descartáveis (5 µl)
  4. Lanceta de segurança
  5. Zaragatoa com álcool
  6. Instruções resumido de uso
  7. Instruções de utilização

Disposable specimen applicator (5 µl) / Applicateur d'échantillon à usage unique (5 µl) / Aplicadores de muestras desechables (5 µl) / Aplicadores de amostras descartáveis (5 µl)

Capillary pipette / Pipette capillaire / Pipeta capilar / Pipeta capilar

Or / Ou  
O bien

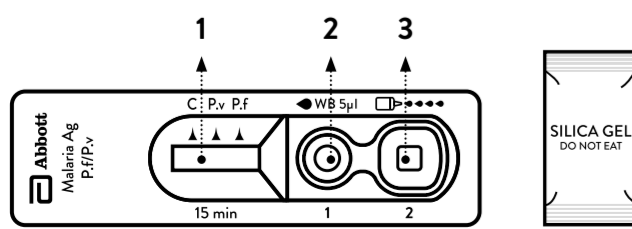
Disposable inverted cup / Une cupule de prélèvement à usage unique / Pipeta invertida desechable / Ventosa invertida descartáveis

- 2** **EN** First, carefully read the instructions for using the Bioline<sup>™</sup> Malaria Ag P.f/P.v test kit.
- FR** Commencer par lire attentivement le mode d'emploi du kit de Bioline<sup>™</sup> Malaria Ag P.f/P.v.
- ES** Primero, lea detenidamente las instrucciones de uso del kit de análisis Bioline<sup>™</sup> Malaria Ag P.f/P.v.
- PT** Primeiro, leia cuidadosamente as instruções para utilizar o kit de teste Bioline<sup>™</sup> Malaria Ag P.f/P.v.

- 3** **EN** Next, look at the expiration date on the back of the foil pouch. If the expiration date has passed, use another lot. To avoid false results, ensure that the assay diluent used is from the same kit as the new test device.
- FR** Vérifier ensuite la date d'expiration à l'arrière de l'emballage en aluminium. Si la date d'expiration est dépassée, utiliser un autre lot. Pour éviter tout faux résultat, s'assurer que le diluant du test utilisé provient du même kit que le nouveau dispositif de test.
- ES** A continuación, compruebe la fecha de caducidad en la parte posterior de la bolsa de papel de aluminio. Si la fecha de caducidad ha vencido, utilice otro lote. Para evitar resultados falsos, asegúrese de que el diluyente del ensayo utilizado es del mismo kit que el dispositivo de prueba nuevo.
- PT** A seguir, verifique o prazo de validade na parte posterior da bolsa de folha de alumínio. Se o prazo de validade tiver sido ultrapassado, utilize outro lote. Para evitar resultados falsos, certifique-se de que o diluente do ensaio utilizado é do mesmo kit que o novo dispositivo do teste.

- 4** **EN** Open the foil pouch and look for the following:
1. Result window
  2. Specimen well
  3. Assay diluent well
- Then, label the device with the patient identifier.
- FR** Ouvrir l'enveloppe et vérifier les élément suivants:
1. Fenêtre de résultat
  2. Puits d'échantillon
  3. Puits pour le diluant
- Étiqueter ensuite le dispositif avec l'identifiant patient.

- EN** Abra la bolsa de aluminio y busque lo siguiente:
1. Ventana de resultados
  2. Pocillo de muestra
  3. Pocillo para diluyente de prueba
- A continuación, etiquete el dispositivo de prueba con la identificación del paciente.
- FR** Abra a bolsa de folha de alumínio e verifique se contém os seguintes itens:
1. Janela de resultados
  2. Poço da amostra
  3. Poço para o diluente do ensaio
- Em seguida, coloque uma etiqueta na dispositivo com o identificador do paciente.



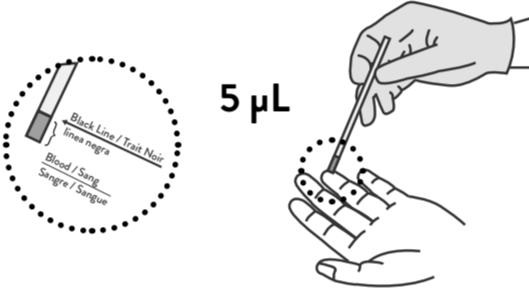
WB 5µl : Whole blood 5 µl / Sang total 5 µl / Sangre 5 µl / Sangue total 5 µl  
 Assay diluent 4 drops / Diluant de dosage 4 gouttes / Diluyentes del ensayo 4 gotas / Diluente de ensaio 4 gotas

## TEST PROCEDURE / PROCÉDURE DE TEST / PROCEDIMIENTO DE LA PRUEBA / PROCEDIMENTO DO TESTE

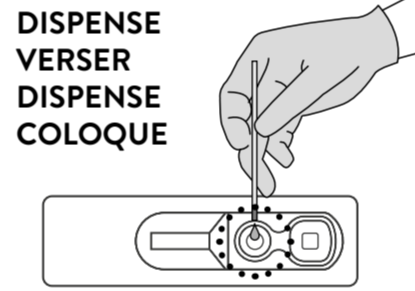
- 1** **EN** Clean the area to be lanced with an alcohol swab.  
**FR** Nettoyer la surface à prélever à l'aide d'un tampon imbibé d'alcool.  
**ES** Limpie el área a ser pinchada con un copo de algodón humedecido con alcohol.  
**PT** Limpe a área a ser lancetada com swab de álcool.
- 2** **EN** Twist off or remove the protective cap from the safety lancet to break the seal and discard.  
**FR** Tourner ou retirer le bouchon protecteur de la lancette de sécurité pour briser le sceau et le jeter.  
**ES** Desenroscar o retirar el tapón protector de la lanceta de seguridad para romper el sello y desecharlo.  
**PT** Rode ou remova a tampa protetora da lanceta de segurança para quebrar o selo e elimine.
- 3** **EN** Prick the lateral side of the finger with the safety lancet provided. Then, safely dispose of the lancet immediately after.  
**FR** Piquer le côté latéral du doigt avec la lancette à aiguilles retractable fournie. Jeter la lancette immédiatement après conformément aux règles de sécurité.  
**ES** Pinche el lado del dedo con la lanceta seguridad suministrada. Deseche de forma segura la lanceta inmediatamente después.  
**PT** Pique a lateral do dedo com a lanceta de segurança fornecida. Em seguida, elimine a lanceta em segurança imediatamente após a utilização.

## Capillary pipette / Pipette capillaire / Pipeta capilar / Pipeta capilar

- 4** **EN** Using a capillary pipette, draw blood to black line.  
**FR** Avec une pipette capillaire, aspirer le sang jusqu'au trait noir.  
**ES** Con una pipeta capilar, extraiga sangre hasta la línea negra.  
**PT** Com uma pipeta capilar, desloque o sangue para a linha preta.

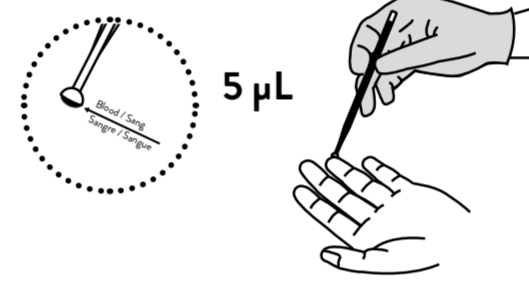


- 5** **EN** Dispense 5 µl of drawn blood into round specimen well.  
**FR** Verser 5 µl de sang prélevé dans le puits d'échantillon rond.  
**ES** Dispense 5 µl de la sangre extraída en el pocillo para muestras redondo.  
**PT** Coloque 5 µl de sangue recolhido no poço redondo da amostra.

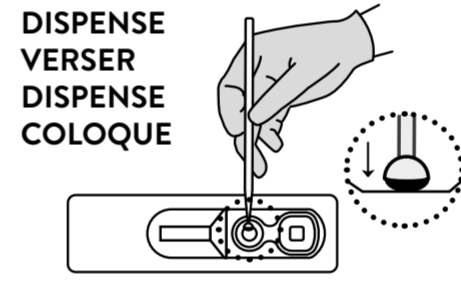


## Disposable inverted cup / Une cupule de prélèvement à usage unique / Pipeta invertida desechable / Ventosa invertida descartáveis

- 4** **EN** Using a disposable inverted cup provided, dip the circular end of a inverted cup into the blood specimen.  
**FR** Prendre une cupule de prélèvement à usage unique fournie, immerger l'extrémité circulaire dans l'échantillon de sang.  
**ES** Tome una pipeta invertida desechable suministrada y sumerja el extremo circular de la pipeta invertida en la muestra de sangre.  
**PT** Pegue numa das ventosas invertidas descartáveis fornecidas, coloque a extremidade circular da ventosa na amostra de sangue.

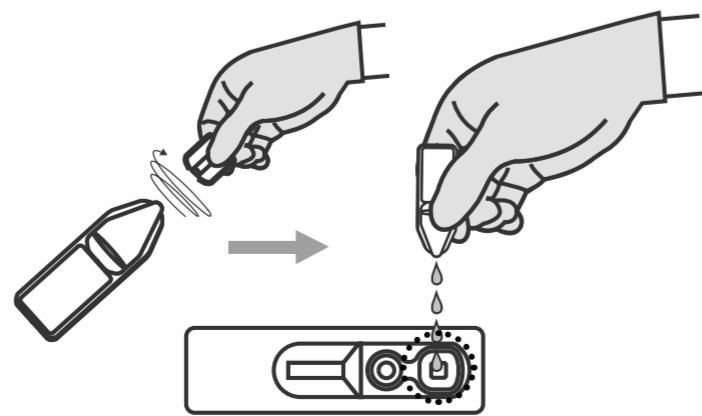


- 5** **EN** Dispense 5 µl of drawn blood into round specimen well touching pad.  
**FR** Verser 5 µl de sang prélevé dans le puits d'échantillon rond qui touche le tampon.  
**ES** Dispense 5 µl de la sangre extraída en el pocillo para muestras redondo tocando la almohadilla.  
**PT** Coloque 5 µl de sangue recolhido no poço redondo da amostra tocando no espaço.



- EN** Use Inverted cup : Let the circular end of the inverted cup touch the pad, then press down lightly.  
**FR** Avec la cupule de prélèvement : Laisser l'extrémité circulaire de la cupule de prélèvement toucher le tampon, puis appuyer légèrement.  
**ES** Use o copo invertido: Deixe que a extremidade circular do copo invertido toque a almofada de amostra, e aperte levemente para baixo.  
**PT** Uso da pipeta invertida: Deixe que o extremo circular de la pipeta invertida entre em contacto com la almohadilla y presione ligeramente.

- 6** **EN** 1. Twist and pull cap to open assay diluent.  
 2. Dispense all of the assay diluent from the diluent tube into the square well of test device.  
**FR** 1. Tourner et tirer l'onglet pour ouvrir le diluant de dosage.  
 2. Répartir l'ensemble du diluant de dosage du tube de diluant dans le puits carré de dispositif d'essai.  
**ES** 1. Gire y tire la tapa para abrir el diluyente de ensayo.  
 2. Añada todo el diluyente de ensayo en el pozo cuadrado del dispositivo de la prueba.  
**PT** 1. Torcer e puxar tampa para abrir diluente do ensaio.  
 2. Adicionar todo o diluente do ensaio no poço quadrado de dispositivo.



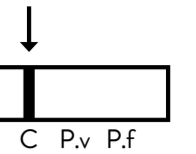
- 7** **EN** Interpret test results 15 minutes (up to 30 minutes) after adding assay diluent. Reading outside of this time frame (before 15 min or after 30 min) may provide false results.  
**FR** Interpréter les résultats du test 15 minutes (30 minutes maximum) après avoir ajouté le diluant du dosage. Un relevé hors de la période prescrite (avant 15 min ou après 30 min) peut donner lieu à de faux résultats.  
**ES** Interprete los resultados de la prueba 15 minutos (hasta 30 minutos) después de agregar el diluyente del ensayo. La lectura fuera de este marco temporal (antes de 15 minutos o después de 30 minutos) puede generar resultados falsos.  
**PT** Interprete os resultados do teste 15 minutos (no máximo até 30 minutos) após adicionar o diluente do ensaio. Efetuar a leitura fora deste intervalo de tempo (antes dos 15 minutos ou após os 30 minutos) pode fornecer resultados incorretos.



## INTERPRETATION / INTERPRÉTATION / INTERPRETACIÓN / INTERPRETAÇÃO

### NEGATIVE / NÉGATIF / NEGATIVO

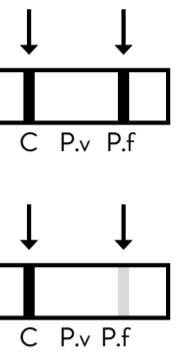
- EN** No malaria P.f/P.v antigen  
 One line "C" in the result window  
**FR** Pas d'antigène P.f/P.v de la malaria  
 Une ligne « C » dans la fenêtre de résultats  
**ES** Ningún antígeno de malaria P.f/P.v  
 Una línea "C" en la ventana de resultados.  
**PT** Sem antígeno da Malária P.f/P.v  
 Uma linha "C" na janela de resultados



### POSITIVE / POSITIF / POSTIVO

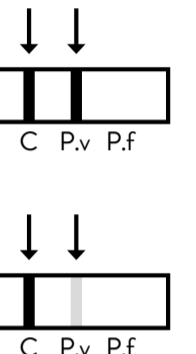
#### P.f Positive / Positif à P.f / P.f Positivo

- EN** Two colored bands (test line "P.f" and control line "C")  
**CAUTION** : It is positive even if "P.f" line is faint.  
**FR** Deux bandes de couleurs (ligne de test « P.f » et ligne de contrôle « C »)  
**Mise en garde** : Le test est positif même si la ligne « P.f » est pâle.  
**ES** Dos bandas de color (línea de prueba "P.f" y línea de control "C")  
**Precaución** : Es positivo incluso si la línea "P.f" es débil.  
**PT** Duas bandas coloridas (linha teste "P.f" e linha controle "C")  
**Atenção** : É positivo mesmo se a linha "P.f" for tênue.



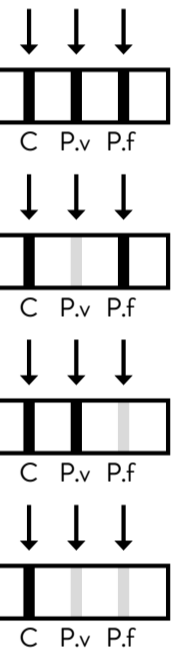
#### P.v Positive / Positif à P.v / P.v Positivo

- EN** Two colored bands (test line "P.v" and control line "C")  
**CAUTION** : It is positive even if "P.v" line is faint.  
**FR** Deux bandes de couleurs (ligne de test « P.v » et ligne de contrôle « C »)  
**Mise en garde** : Le test est positif même si la ligne « P.v » est pâle.  
**ES** Dos bandas de color (línea de prueba "P.v" y línea de control "C")  
**Precaución** : Es positivo incluso si la línea "P.v" es débil.  
**PT** Duas bandas coloridas (linha teste "P.v" e linha controle "C")  
**Atenção** : É positivo mesmo se a linha "P.v" for tênue.



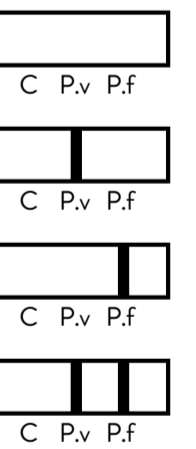
#### Mixed infection of P.f and P.v / Infection croisée à P.f et P.v / Infección mixta de P.f y P.v / Infecção mista de P.f e P.v

- EN** Three colored bands (test lines "P.f", "P.v" and control line "C")  
**CAUTION** : It is positive even if "P.f" and/or "P.v" line(s) are faint.  
**FR** Trois bandes de couleurs (lignes de test « P.f » et « P.v » et ligne de contrôle « C »)  
**Mise en garde** : Le test est positif même si les lignes « P.f » et/ou « P.v » sont pâles.  
**ES** Tres bandas de color (líneas de prueba "P.f", "P.v" y control "C")  
**Precaución** : Es positivo incluso si las líneas "P.f" y/o "P.v" son débiles.  
**PT** Três bandas coloridas (linhas teste "P.f" e "P.v" e linha controle "C")  
**Atenção** : É positivo mesmo se as linhas "P.f" e/ou "P.v" forem tênues.



### INVALID / NON VALIDE / INVÁLIDO / INVÁLIDO

- EN** If the control line "C" is not visible within the result window after performing the test, the result is considered invalid. Instructions may not have been followed correctly or the test may have deteriorated beyond the expiration date. It is recommended that the specimen be retested using a new test device.  
**FR** Si la ligne de contrôle « C » n'est pas visible dans la fenêtre de résultat après avoir réalisé le test, le résultat est considéré comme non valide. Il se peut que les instructions n'aient pas été suivies correctement ou que le test se soit détérioré au-delà de la date de péremption. Il est conseillé d'analyser à nouveau l'échantillon à l'aide d'un nouveau dispositif de test.  
**ES** Si la línea de control "C" no es visible en la ventana de resultados después de realizar la prueba, el resultado se considera no válido. Es posible que no se hayan seguido las instrucciones correctamente o que la prueba se haya deteriorado por haber superado la fecha de caducidad. Se recomienda volver a analizar la muestra usando un nuevo dispositivo de prueba.  
**PT** Se a linha de controle "C" não estiver visível dentro da janela do resultado após a realização do teste, o resultado é considerado inválido. As instruções podem não ter sido seguidas corretamente ou o teste pode ter-se deteriorado para além da data de validade. Recomenda-se que a amostra seja novamente testada utilizando um novo dispositivo de teste.



## Glossary of symbols / Glossaire des symboles / Glosario de símbolos / Glossário de símbolos

1°C - 40°C 34°F - 104°F	Store at 1 - 40°C (34°F - 104°F) Conserver entre 1 et 40°C (34 et 104°F) Almacener entre 1 y 40°C (34°F - 104°F) Almacener entre 1 - 40°C (34°F - 104°F)	LOT	Lot Number No. de lot Número de Lote Número de lote	Manufacturer Fabricant Fabricante Fabricante	Do not use if packaging is damaged
IVD	For in vitro diagnostic use only Pour diagnostic in vitro uniquement Solo para uso de diagnóstico in vitro Somente para uso de diagnóstico in vitro	REF	Catalog Number Code produit Número de Referência Número de Catálogo	Date of manufacture Date de fabrication Fecha de fabricación Data de fabricação	Keep dry Conserver au sec Manténgase seco Conservar seco
Do not reuse Usage unique Ne Réutiliser Não reutilizar	Authorized Representative Représentante autorisé Representante autorizado Representante autorizado	EC REP	Authorized Representative Représentante autorisé Representante autorizado Representante autorizado	CE marking according to IVD Dispositifs médicaux de diagnostic in vitro 98/79/CE Marcado CE conforme a la Directiva 98/79/CE relativa a los productos sanitarios para diagnóstico in vitro Marcação CE de acordo com a Diretiva 98/79/CE relativa aos dispositivos médicos de diagnóstico in vitro	Biological Risks Risques biologiques Riscos biológicos Riscos biológicos
Use By Date de péremption Fecha de caducidad Utilizar até	Instructions for use Attention, voir mode d'emploi Atención, ver Instrucciones de uso Atenção, ver Instruções de uso	i	Caution Mise en garde Precaución Atenção	Keep away from sunlight Conserver à l'abri de la lumière du soleil Manténgase fuera de la luz del sol Mantenha afastado da luz solar	
Contains sufficient for X tests Contient suffisante pour X tests Contiene o suficiente para X pruebas Contém o suficiente para X testes					

## **2.4 IFU for 05FK83**







# Bioline™ Malaria Ag P.f/P.v

Malaria HRP2 (P.f) and pLDH (P.v) Antigen Rapid Test  
Test rapide en une étape de détection d'antigènes HRP2 (P.f) et pLDH (P.v) du paludisme  
Prueba rápida en un paso para determinación de Ag Malaria HRP2 (P.f) y pLDH (P.v)  
Teste rápido de passo único para detecção de antígeno de malária HRP2 (P.f) e pLDH (P.v)

## PREPARATION / PRÉPARATION / PREPARACIÓN / PREPARAÇÃO

- EN** Open the package and look for the following:
  1. Test device with desiccant in individual foil pouch
  2. Assay diluent
  3. Disposable specimen applicator (5 µl)
  4. Sterile lancet
  5. Alcohol swab
  6. Summarized instructions for use
  7. Instructions for use
- FR** Ouvrir le kit et vérifier les éléments suivants:
  1. Dispositif de test avec agent déshydratant emballés dans des pochette individuelles en aluminium
  2. Diluant de dosage
  3. Applicateur d'échantillon à usage unique (5 µl)
  4. Lancette stérile
  5. Compresses d'alcool
  6. Résumé du Notice d'utilisation
  7. Mode d'emploi
- ES** Abra el empaque y busque a continuación:
  1. Dispositivo de prueba con desecante en bolsa de papel de aluminio individuales
  2. Diluyente del ensayo
  3. Aplicadores de muestras desechables (5 µl)
  4. Lanceta estériles
  5. Hisopo con alcohol
  6. Instrucciones resumida de uso
  7. Instrucciones de uso
- PT** Abra a embalagem e observe abaixo:
  1. Dispositivo de teste com dessecante em bolsa de folha de alumínio individuais
  2. Diluente de ensaio
  3. Aplicadores de amostras descartáveis (5 µl)
  4. Lanceta esterilizada
  5. Zaragatoa com álcool
  6. Instruções resumido de uso
  7. Instruções de utilização

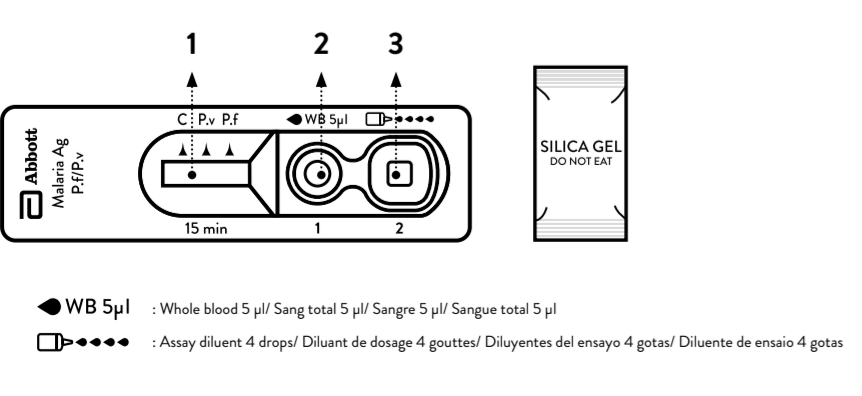
### Disposable specimen applicator (5 µl) / Applicateur d'échantillon à usage unique (5 µl) / Aplicadores de muestras desechables (5 µl) / Aplicadores de amostras descartáveis (5 µl)

Capillary pipette Pipette capillaire Pipeta capilar Pipeta capilar	<b>Or / Ou O bien</b>	Disposable inverted cup Une cupule de prélèvement à usage unique Pipeta invertida desechable Ventosa invertida descartáveis
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- EN** First, carefully read the instructions for using the Bioline™ Malaria Ag P.f/P.v test kit.
- FR** Commencer par lire attentivement le mode d'emploi du kit de Bioline™ Malaria Ag P.f/P.v.
- ES** Primero, lea detenidamente las instrucciones de uso del kit de análisis Bioline™ Malaria Ag P.f/P.v.
- PT** Primeiro, leia cuidadosamente as instruções para utilizar o kit de teste Bioline™ Malaria Ag P.f/P.v.

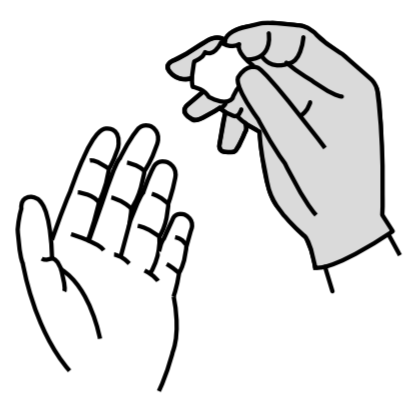
- EN** Next, look at the expiration date on the back of the foil pouch. If the expiration date has passed, use another lot. To avoid false results, ensure that the assay diluent used is from the same kit as the new test device.
- FR** Vérifier ensuite la date d'expiration à l'arrière de l'emballage en aluminium. Si la date d'expiration est dépassée, utiliser un autre lot. Pour éviter tout faux résultat, s'assurer que le diluant du test utilisé provient du même kit que le nouveau dispositif de test.
- ES** A continuación, compruebe la fecha de caducidad en la parte posterior de la bolsa de papel de aluminio. Si la fecha de caducidad ha vencido, utilice otro lote. Para evitar resultados falsos, asegúrese de que el diluyente del ensayo utilizado es del mismo kit que el dispositivo de prueba nuevo.
- PT** A seguir, verifique o prazo de validade na parte posterior da bolsa de folha de alumínio. Se o prazo de validade tiver sido ultrapassado, utilize outro lote. Para evitar resultados falsos, certifique-se de que o diluente do ensaio utilizado é do mesmo kit que o novo dispositivo do teste.

- EN** Open the foil pouch and look for the following:
  1. Result window
  2. Specimen well
  3. Assay diluent well
 Then, label the device with the patient identifier.
- FR** Ouvrir l'enveloppe et vérifier les élément suivants:
  1. Fenêtre de résultat
  2. Puits d'échantillon
  3. Puits pour le diluant
 Étiqueter ensuite le dispositif avec l'identifiant patient.
- ES** Abra la bolsa de aluminio y busque lo siguiente:
  1. Ventana de resultados
  2. Pocillo de muestra
  3. Pocillo para diluyente de prueba
 A continuación, etiquete el dispositivo de prueba con la identificación del paciente.
- PT** Abra a bolsa de folha de alumínio e verifique se contém os seguintes itens:
  1. Janela de resultados
  2. Poço da amostra
  3. Poço para o diluente do ensaio
 Em seguida, coloque uma etiqueta no dispositivo com o identificador do paciente.

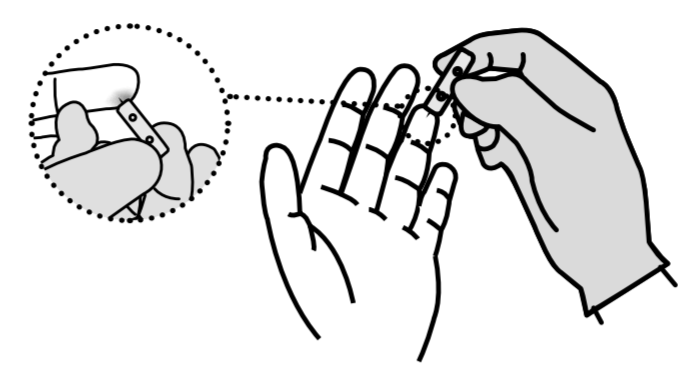


## TEST PROCEDURE / PROCÉDURE DE TEST / PROCEDIMIENTO DE LA PRUEBA / PROCEDIMENTO DO TESTE

- EN** Clean the area to be lanced with an alcohol swab.
- FR** Nettoyer la surface à prélever à l'aide d'un tampon imbibé d'alcool.
- ES** Limpie el área a ser pinchada con un copo de algodón humedecido con alcohol.
- PT** Limpe a área a ser lancetada com swab de álcool.

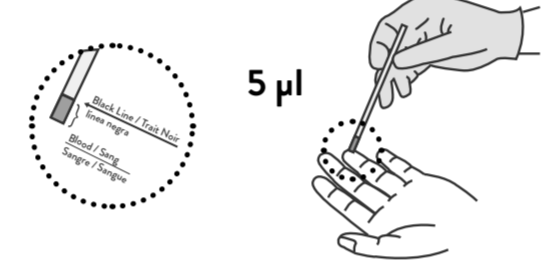


- EN** Prick the lateral side of the finger with the sterile lancet provided. Then, safely dispose of the lancet immediately after.
- FR** Piquer le côté latéral du doigt avec la lancette stérile fournie. Jeter la lancette immédiatement après conformément aux règles de sécurité.
- ES** Pinche el lado del dedo con la lanceta estéril suministrada. Deseche de forma segura la lanceta inmediatamente después.
- PT** Pique a lateral do dedo com a lanceta esterilizada fornecida. Em seguida, elimine a lanceta em segurança imediatamente após a utilização.



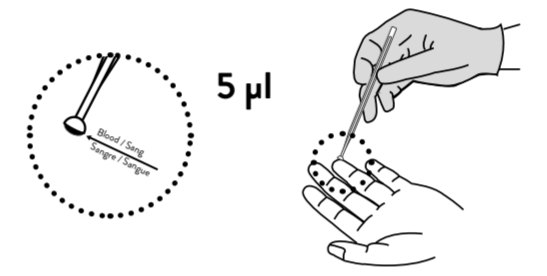
### Capillary pipette / Pipette capillaire / Pipeta capilar / Pipeta capilar

- EN** Using a 5 µl capillary pipette, draw blood to black line.
- FR** Avec une pipette capillaire de 5 µl, aspirer le sang jusqu'au trait noir.
- ES** Con una pipeta capilar de 5 µl, extraiga sangre hasta la línea negra.
- PT** Com uma pipeta capilar de 5 µl, desloque o sangue para a linha preta.



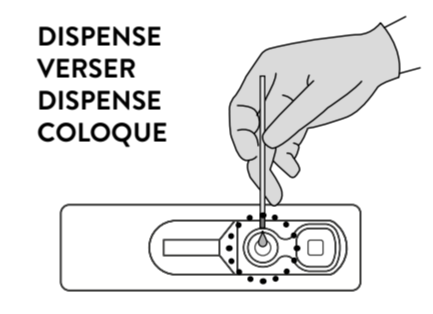
### Disposable inverted cup / Une cupule de prélèvement à usage unique / Pipeta invertida desechable / Ventosa invertida descartáveis

- EN** Using a disposable inverted cup (5 µl) provided, dip the circular end of a inverted cup into the blood specimen.
- FR** Prendre l'anse jetable (5 µl), tremper le bout circulaire de l'anse dans l'échantillon de sang.
- ES** Tome una pipeta invertida desechable (5 µl) sumistrada y sumerja el extremo circular de la pipeta invertida en la muestra de sangre.
- PT** Pegue numa das ventosas invertidas descartáveis (5 µl) fornecidas, coloque a extremidade circular da ventosa na amostra de sangue.

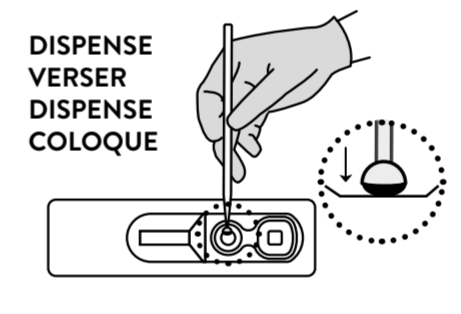


Or / Ou  
O bien

- EN** Dispense 5 µl of drawn blood into round specimen well.
- FR** Verser 5 µl de sang total prélevé dans le puits d'échantillon rond.
- ES** Dispense 5 µl de la sangre extraída al pocillo para muestras redondo .
- PT** Coloque 5 µl de sangue recolhido no poço redondo da amostra.

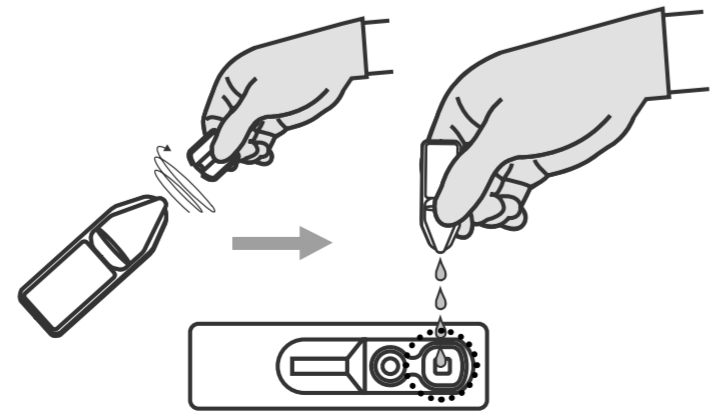


- EN** Dispense 5 µl of drawn blood into round specimen well touching pad.
- FR** Verser 5 µl de sang prélevé dans le puits d'échantillon en touchant le tampon.
- ES** Dispense 5 µl de la sangre extraída en el pocillo para muestras redondo tocando la almohadilla.
- PT** Coloque 5 µl de sangue recolhido no poço redondo da amostra tocando no espaço.



- EN** Use Inverted cup : Let the circular end of the inverted cup touch the pad, then press down lightly.
- FR** Avec la cupule de prélèvement : Laisser l'extrémité circulaire de la cupule de prélèvement toucher le tampon, puis appuyer légèrement.
- ES** Use o copo invertido: Deixe que a extremidade circular do copo invertido toque a almofada de amostra, e aperte levemente para baixo.
- PT** Uso de la pipeta invertida: Deje que el extremo circular de la pipeta invertida entre en contacto con la almohadilla y presione ligeramente.

- EN**
  1. Twist and pull cap to open assay diluent.
  2. Dispense all of the assay diluent from the diluent tube into the square well of test device.
- FR**
  1. Tourner et tirer l'onglet pour ouvrir le diluant de dosage.
  2. Répartir l'ensemble du diluant de dosage du tube de diluant dans le puits carré de dispositif d'essai.
- ES**
  1. Gire y tire la tapa para abrir el diluyente de ensayo.
  2. Añada todo el diluyente de ensayo en el pozo cuadrado del dispositivo de la prueba.
- PT**
  1. Torcer e puxar tampa para abrir diluente do ensaio.
  2. Adicionar todo o diluente do ensaio no poço quadrado de dispositivo.

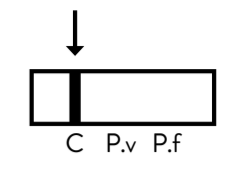


- EN** Interpret test results 15 minutes (up to 30 minutes) after adding assay diluent. Reading outside of this time frame (before 15 min or after 30 min) may provide false results.
- FR** Interpréter les résultats du test 15 minutes (30 minutes maximum) après avoir ajouté le diluant du dosage. Un relevé hors de la période prescrite (avant 15 min ou après 30 min) peut donner lieu à de faux résultats.
- ES** Interprete los resultados de la prueba 15 minutos (hasta 30 minutos) después de agregar el diluyente del ensayo. La lectura fuera de este marco temporal (antes de 15 minutos o después de 30 minutos) puede generar resultados falsos.
- PT** Interprete os resultados do teste 15 minutos (no máximo até 30 minutos) após adicionar o diluente do ensaio. Efetuar a leitura fora deste intervalo de tempo (antes dos 15 minutos ou após os 30 minutos) pode fornecer resultados incorretos.



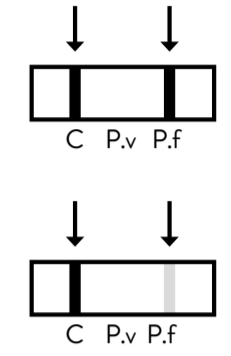
## INTERPRETATION / INTERPRÉTATION / INTERPRETACIÓN / INTERPRETAÇÃO

- NEGATIVE / NÉGATIF / NEGATIVO**
- EN** No malaria P.f/P.v antigen  
One line "C" in the result window
- FR** Pas d'antigène P.f/P.v de la malaria  
Une ligne « C » dans la fenêtre de résultats
- ES** Ningún antígeno de malaria P.f/P.v  
Una línea "C" en la ventana de resultados.
- PT** Sem antígeno da Malária P.f/P.v  
Uma linha "C" na janela de resultados

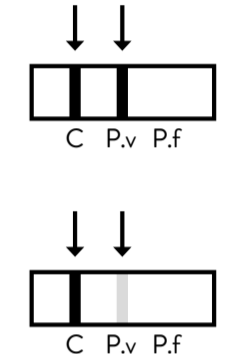


## POSITIVE / POSITIF / POSTIVO

- P.f Positive / Positif à P.f / P.f Positivo**
- EN** Two colored bands (test line "P.f" and control line "C")  
⚠ **Caution** : It is positive even if "P.f" line is faint.
- FR** Deux bandes de couleurs (ligne de test « P.f » et ligne de contrôle « C »)  
⚠ **Mise en garde** : Le test est positif même si la ligne « P.f » est pâle.
- ES** Dos bandas de color (línea de prueba "P.f" y línea de control "C")  
⚠ **Precaución** : Es positivo incluso si la línea "P.f" es débil.
- PT** Duas bandas coloridas (linha teste "P.f" e linha controle "C")  
⚠ **Atenção** : É positivo mesmo se a linha "P.f" for tênue.

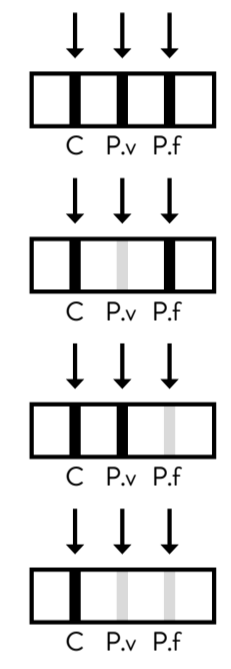


- P.v Positive / Positif à P.v / P.v Positivo**
- EN** Two colored bands (test line "P.v" and control line "C")  
⚠ **Caution** : It is positive even if "P.v" line is faint.
- FR** Deux bandes de couleurs (ligne de test « P.v » et ligne de contrôle « C »)  
⚠ **Mise en garde** : Le test est positif même si la ligne « P.v » est pâle.
- ES** Dos bandas de color (línea de prueba "P.v" y línea de control "C")  
⚠ **Precaución** : Es positivo incluso si la línea "P.v" es débil.
- PT** Duas bandas coloridas (linha teste "P.v" e linha controle "C")  
⚠ **Atenção** : É positivo mesmo se a linha "P.v" for tênue.



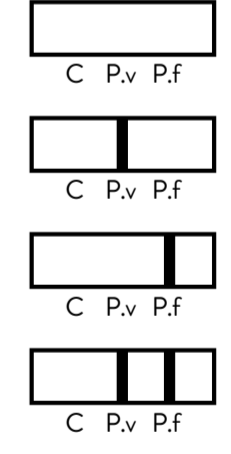
### Mixed infection of P.f and P.v / Infection croisée à P.f et P.v / Infección mixta de P.f y P.v / Infecção mista de P.f e P.v

- EN** Three colored bands (test lines "P.f", "P.v" and control line "C")  
⚠ **Caution** : It is positive even if "P.f" and/or "P.v" line(s) are faint.
- FR** Trois bandes de couleurs (lignes de test « P.f » et « P.v » et ligne de contrôle « C »)  
⚠ **Mise en garde** : Le test est positif même si les lignes « P.f » et/ou « P.v » sont pâles.
- ES** Tres bandas de color (líneas de prueba "P.f", "P.v" y control "C")  
⚠ **Precaución** : Es positivo incluso si las líneas "P.f" y/o "P.v" son débiles.
- PT** Três bandas coloridas (linhas teste "P.f" e "P.v" e linha controle "C")  
⚠ **Atenção** : É positivo mesmo se as linhas "P.f" e/ou "P.v" forem tênues.



## INVALID / NON VALIDE / INVÁLIDO / INVÁLIDO

- EN** If the Control Line "C" is not visible within the result window after performing the test, the result is considered invalid. Instructions may not have been followed correctly or the test may have deteriorated beyond the expiration date. It is recommended that the specimen be retested using a new test device.
- FR** Si la ligne de contrôle « C » n'est pas visible dans la fenêtre de résultat après avoir réalisé le test, le résultat est considéré comme non valide. Il se peut que les instructions n'aient pas été suivies correctement ou que le test se soit détérioré au-delà de la date de péremption. Il est conseillé d'analyser à nouveau l'échantillon à l'aide d'un nouveau dispositif de teste.
- ES** Si la línea de control "C" no es visible en la ventana de resultados después de realizar la prueba, el resultado se considera no válido. Es posible que no se hayan seguido las instrucciones correctamente o que la prueba se haya deteriorado por haber superado la fecha de caducidad. Se recomienda volver a analizar la muestra usando un nuevo dispositivo de prueba.
- PT** Se a linha de controlo "C" não estiver visível dentro da janela do resultados após a realização do teste, o resultado é considerado inválido. As instruções podem não ter sido seguidas corretamente ou o teste pode ter-se deteriorado para além da data de validade. Recomenda-se que a amostra seja novamente testada utilizando um novo dispositivo de teste.



<b>1°C - 40°C</b> <b>34°F - 104°F</b> Store at 1 - 40°C (34°F - 104°F) Conserver entre 1 et 40°C (34°F - 104°F) Almacener entre 1 y 40°C (34°F - 104°F) Armazenar entre 1 - 40°C (34°F - 104°F)	<b>LOT</b> Lot Number No. de lot Número de Lote Número de lote	<b>Manufacturer</b> Fabricant Fabricante Fabricante	Do not use if packaging is damaged
<b>IVD</b> For in vitro diagnostic use only Pour diagnostic in vitro uniquement Solo para uso de diagnóstico in vitro Somente para uso de diagnóstico in vitro	<b>REF</b> Catalog Number Code produit Número de Referência Número de Catálogo	<b>Date of manufacture</b> Date de fabrication Fecha de fabricación Data de fabricacao	Keep dry Conserver au sec Manténgase seco Conservar seco
Do not reuse Usage unique No Reutilizar Não reutilizar	<b>EC REF</b> Authorized Representative Représentante autorisé Representante autorizado Representante autorizado	<b>CE</b> CE marking according to IVD Medical Devices Directive 98/79/EC Marquage CE conformément à la directive sur les dispositifs médicaux de diagnostic in vitro 98/79/CE Marcado CE conforme a la Directiva 98/79/CE relativa a los productos sanitarios para diagnóstico in vitro Marcação CE de acordo com a Diretiva 98/79/CE relativa aos dispositivos médicos de diagnóstico in vitro	Biological Risk Risques biologiques Riscos biológicos
<b>Use By</b> Date de péremption Fecha de caducidad Utilizar até	<b>Instructions for use</b> Attention, voir mode d'emploi Atención, ver Instrucciones de uso Atenção, ver Instruções de uso	Keep away from sunlight Conserver à l'abri de la lumière du soleil Manténgase fora de la luz del sol Manter afastado da luz solar	Caution Mise en garde Precaución Atenção
Contains sufficient for X tests Permet de réaliser X tests Contenido suficiente para X pruebas Contém o suficiente para X testes			

## **2.5 IFU for 05FK86**



REF 05FK86

- *Plasmodium vivax* positive : The presence of two colored lines (test line "P.v" and control line "C") within the result window, regardless of which line appears first, indicates Plasmodium vivax positive result.
  - Mixed infection of *P.f* and *P.v* : The presence of three colored lines (test lines "P.F", "P.v" and control line "C") within the result window, regardless of which line appears first, indicates mixed infection of P.f and P.v.
3. Invalid result : If the control line "C" is not visible within the result window after performing the test, the result is considered invalid. Instructions may not have been followed correctly or the test may have deteriorated beyond the expiration date.

### Limitations and Interferences

1. The test procedure, precautions and interpretation of results for this test must be followed when testing.
2. This test kit detects P.f HRP2 and/or pLDH specific to P.v in patient whole blood and is useful as a screening procedure of malaria diagnosis.
3. The test is limited to the detection of antigen to Malaria Plasmodium sp. Although the test is very accurate in detecting HRP2 specific to *P. falciparum* or pLDH specific to *Plasmodium vivax* a low incidence of false results can occur. Other clinically available tests are required if questionable results are obtained. 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.
4. 25.7 % - 41.0 % of *P. falciparum* specimens in the Peruvian Amazon lack the P.f- HRP2 gene. As such a region like the Peruvian Amazon, P.f test line may shows false negative result.
5. False positive P.f HRP2 test result, especially in high-transmission areas, may occur due to the persistence of P.f-HRP2 antigen after treatment.
6. Due to the qualitative nature of IVD test, faint or absent test line (false negative) may occur in the specimens with high parasite densities due to prozone effect. In order to get a definitive result, all clinical and laboratory findings should be followed.

### Internal quality control

The Bioline™ Malaria Ag P.f/P.v test device has test lines ("P.F", "P.v") and control line ("C") on the surface of the device. Neither the test lines nor the control line is visible in the result window before applying a specimen. The control line is used for procedural control and shows only that the diluent has been applied successfully and that the active ingredients of the main components on the strip are functional, but is not an assurance that the specimen has been properly applied; it is not a positive specimen control.

### Expected values

The Bioline™ Malaria Ag P.f/P.v test has been compared with microscopic examination. The overall accuracy is greater or equal to 95%.

### Performance characteristics

1. Internal evaluation of Bioline™ Malaria Ag P.f/P.v test
- A. Bioline™ Malaria Ag P.f/P.v test for the detection of *P. falciparum* malaria according to the level of parasite.

No. of parasites / µL of blood	Microscopy (No. of positive)	Bioline™ Malaria Ag P.f/P.v (No. of positive)	Sensitivity (%)
1 - 50	16	15	93.8 %
51 - 100	35	35	100.0 %
101 - 500	96	96	100.0 %
501 - 1,000	81	81	100.0 %
1,001 - 5,000	79	79	100.0 %
> 5,000	61	61	100.0 %
<b>Total</b>	<b>368</b>	<b>367</b>	<b>99.7 %</b>

- B. Bioline™ Malaria Ag P.f/P.v test for the detection of *P. vivax* malaria according to the level of parasite.

No. of parasites / µL of blood	Microscopy (No. of positive)	Bioline™ Malaria Ag P.f/P.v (No. of positive)	Sensitivity (%)
1 - 50	6	3	50.0 %
51 - 100	10	9	90.0 %
101 - 500	25	24	96.0 %
501 - 1,000	18	18	100.0 %
1,001 - 5,000	29	29	100.0 %
> 5,000	23	23	100.0 %
<b>Total</b>	<b>111</b>	<b>106</b>	<b>95.5 %</b>

- C. Sensitivity and specificity of Bioline™ Malaria Ag P.f/P.v test.

Reference method (Microscopic examination)	Result of Bioline™ Malaria Ag P.f/P.v		Total
	Positive	Negative	
P.f Positive	367	1	368
P.v Positive	106	5	111
Negative	1	199	200
Sensitivity (95 % CI)	99.7 % (98.5 - 100 %)		
Sensitivity (95 % CI)	95.5 % (89.9 - 98.1 %)		
Specificity (95 % CI)	99.5 % (97.2 - 99.9 %)		

- D. Following potentially interfering substances have no impact on the assay.

No.	Potential interfering substances
1	Acetaminophen
2	Amoxicillin
3	Cephalexin
4	Doxycycline
5	Erythromycin
6	Heparin
7	Hydroxychloroquine sulfate
8	Ibuprofen
9	Quinine sulfate
10	Penicillin
11	Streptomycin
12	Albumin

No.	Potential interfering substances
13	Acetylsalicylic acid
14	Billirubin (Conjugate)
15	Billirubin (Unconjugate)
16	Caffeine
17	Cholesterol
18	Hemoglobin
19	Insulin
20	Triglycerides
21	Nicotine
22	Systemic lupus erythematosus (SLE)
23	Rheumatoid arthritis
24	Sjogren's syndrome

To evaluate the interference of Bioline™ Malaria Ag P.f/P.v test kit with known relevant interfering specimens, the haemolytic specimens, rheumatoid factors-contained specimens and lipaemic, icteric specimens were investigated. In these studies, those specimens did not interfere with the Bioline™ Malaria Ag P.f/P.v test.

- E. Following potentially cross-reacting microorganism have no impact on the assay.

No.	Type	Potential cross-reacting pathogens
1	Viruses	Dengue
2		Yellow fever
3		Chikungunya
4		Ross-River
5		Influenza A
6		Influenza B
7		HIV 1 (subtype B)
8		Hepatitis B
9		Hepatitis C
10		Rubella

No.	Type	Potential cross-reacting pathogens
11	Bacteria	<i>Leptospira interrogans</i> (icterohaemorrhagiae)
12		<i>Treponema pallidum</i>
13		<i>Onentia tsutsugamushi-Rickettsia</i> (Karp)
14	Protists	<i>Trypanosoma cruzi</i>
15		<i>Leshmania donovani</i>
16		<i>Trypanosoma brucei gambiense</i>
17		<i>Trypanosoma brucei rhodesiense</i>
18		<i>Plasmodium falciparum</i>
19		<i>Plasmodium vivax</i>
20		<i>Plasmodium ovale</i>
21		<i>Plasmodium malariae</i>

2. Reproducibility of Bioline™ Malaria Ag P.f/P.v has been demonstrated by within-run, between-run and batch-to-batch studies using in-house reference panels. All values were identical to reference panel acceptance criteria.
3. Assay for the detection of Malaria according to the level of parasite.
  - *Plasmodium falciparum* : Sensitivity with > 50 parasite/µl of blood is 100 %.
  - *Plasmodium vivax* : Sensitivity with > 50 parasite/µl of blood is greater than 98 %.

### Bibliography of suggested reading

1. SM Gikunda, JY Carter and Joseph Macharia : FIELD EVALUATION OF SD BIOLINE-MALARIA ANTIGEN RAPID TEST (2006)
2. Pr DOSSO Mireille : Transmission rapport d'évaluation des tests rapides : SD MALARIA ANTIGEN (2005)
3. Dr Didier Ménard : Évaluation des caractéristiques techniques de 2 tests de diagnostic rapide du paludisme (RDT) (2007)
4. REPORT ON THE EVALUATION OF SD-BIOLINE MALARIA ANTIGEN AT MT. DARWIN DISTRICT HOSPITAL, ZIMBABWE (2007)
5. <http://www.malariaeliminationgroup.org/sites/default/files/fileuploads/AGuideonMalariaEliminationforPolicyMakers.pdf>
6. [http://whqlibdoc.who.int/publications/2010/9789241547925\\_eng.pdf](http://whqlibdoc.who.int/publications/2010/9789241547925_eng.pdf)
7. [http://www.finddiagnostics.org/resource-centre/reports\\_brochures/malaria-diagnostic-test-report.html](http://www.finddiagnostics.org/resource-centre/reports_brochures/malaria-diagnostic-test-report.html)

#### Product Disclaimer:

While every precaution has been taken to ensure the diagnostic ability and accuracy of this product, the product is used outside of the control of the manufacturer and distributor and test results may accordingly be affected by environmental factors and/or user error. The subject of the diagnosis should consult a doctor for further confirmation of the test result.

#### Warning:

The manufacturers and distributors of this product shall not be liable for any direct, indirect, or consequential losses, liability, claims, costs or damages arising from or related to an incorrect positive or negative diagnosis using this product.

### Bioline™

# Malaria Ag P.f/P.v

## Malaria HRP2 (P.f) and pLDH (P.v) Antigen Rapid Test

### About the test

[Introduction]

Malaria is a serious and sometimes fatal parasitic disease characterized by fever, chills and anemia. The disease is caused by a parasite that is transmitted from one human to another through the bite of infected Anopheles mosquitoes. There are four types of malaria 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 are released in another form: merozoites. The disease now occurs in more than 90 countries worldwide, and it is estimated that there are over 200 million clinical cases and 0.5 million malaria-caused deaths per year. At present, malaria is diagnosed by looking for parasites in a drop of blood. Blood is placed on a microscope slide and stained so that the parasites will be visible under a microscope.

[Test Principle]

Bioline™ Malaria Ag P.f/P.v test device contains a membrane strip, which is pre-coated with one monoclonal antibody and the other monoclonal antibody as two separate lines across a test strip. One monoclonal antibodies (test line P.f) are specific to the HRP2 of *P. falciparum* and the other monoclonal antibodies (test line P.v) are specific to the lactate dehydrogenase of *Plasmodium vivax*. This kit is intended for the detection of Malaria infection in human blood specimen, indicating differential diagnosis between *P.f* HRP2 (*Plasmodium falciparum*, histidine-rich protein II) and pLDH (Plasmodium lactate dehydrogenase) specific to *Plasmodium vivax*.

[Intended Use]

The Bioline™ Malaria Ag P.f/P.v test is a rapid, qualitative test for the differential detection of HRP2 (Histidine-rich protein II) specific to *Plasmodium falciparum* and pLDH (Plasmodium lactate dehydrogenase) specific to *Plasmodium vivax* in human whole blood.

### Materials provided and active ingredients of main component

1. The Bioline™ Malaria Ag P.f/P.v test kit contains the following items to perform the assay:
  - 10 Test devices with desiccant in individual foil pouches
  - Assay diluents (1 x 3 ml/vial)
  - 10 Disposable specimen applicators (5 µl), 10 Sterile lancets, 10 Alcohol swabs
  - 1 Instructions for use
2. Active ingredients of main component
  - 1 test strip includes; Gold conjugate : Mouse monoclonal antibodies specific to P.f HRP2 - gold colloid (0.1±0.02 µg), Mouse monoclonal antibodies specific to pLDH of *Plasmodium vivax* - gold colloid (0.1±0.02 µg), Test line P.f : Mouse monoclonal antibodies specific to P.f HRP2 (0.5±0.1 µg), Test line P.v : Mouse monoclonal antibodies specific to pLDH of *Plasmodium vivax* (0.5±0.1 µg), Control line : Goat anti- mouse IgG (1.0±0.2 µg)
  - Assay diluent includes; Bovine serum albumin (q.s.), 200 mM Phosphate Saline Buffer (q.s.), TRITON™ X-100, Sodium azide (q.s.)

### Materials required but not provided

- Micropipette, Protective gloves, Timer, Biohazard container

### Kit storage and stability

1. The test kit should be stored at a temperature between 1 °C and 40 °C. Do not expose the kit or its components to freezing or high temperatures. Note : When stored in refrigerator, all kit components must be brought to room temperature (15 - 30 °C) a minimum 30 minutes prior to performing the test. Do not open the pouch whilst components come to room temperature.
2. After first opening of the assay diluent bottle, assay diluent is stable until the expiration date, if kept at 1 - 40 °C.
3. The test device is sensitive to both heat and humidity. Perform the test immediately after opening the foil pouch, to avoid exposure to humidity and moisture.
4. The shelf life of the kit is as indicated on the outer package.
5. Do not use the test kit beyond its expiration date.
6. Do not use the test kit if the pouch is damaged or the seal is broken.
7. When transporting or storing the kit, avoid exposure to high temperature (above 45 °C) for a period longer than 1 week.

### Warnings

1. For *in vitro* diagnostic use only. Do not reuse the test device and kit components.
2. The instructions must be followed exactly to achieve accurate results. Any individual using this product must be trained in its use and interpretation and must be experienced in laboratory procedures.
3. Do not eat or smoke while handling specimens and kit.
4. Wear protective gloves while handling specimens and wash hands thoroughly afterwards.
5. Avoid splashing or aerosol formation of specimen and assay diluent.
6. Clean up spills thoroughly using an appropriate disinfectant.
7. Decontaminate and dispose of all specimens, tested devices and potentially contaminated materials (i.e. lancet, disposable inverted cup, test device) in a biohazard container as if they were infectious waste.
8. Do not mix or interchange different specimens.
9. Do not mix reagents of different lots or with those of other products.
10. Do not pipette by mouth.
11. Do not eat the desiccant from the foil pouch.
12. Use only the disposable inverted cup provided in the kit.
13. Do not drink assay diluent.
14. The assay diluent contains a proprietary anti-microbial agent, sodium azide, which presents no hazard to the user if normal laboratory safety precautions are followed. If contact with assay diluent to the eyes and/or skin, wash affected area with soap and water immediately. If irritation or signs of toxicity occur, seek medical attention.

### Specimen collection and storage

[Collection by venipuncture]

1. Using venipuncture, collect whole blood into the collection tube (containing anticoagulants including heparin, EDTA and sodium citrate).
2. If the blood specimen is not immediately tested, it should be refrigerated at 2 - 8 °C.
3. If stored at 2 - 8 °C, the blood specimen should be tested within 3 days.
4. Do not use a blood specimen stored for more than 3 days; it can cause a nonspecific reaction.

[Collection using a lancet]

1. Clean the area to be lanced with an alcohol swab.
2. Squeeze the end of the fingertip and pierce with a sterile lancet provided.
3. Wipe away the first drop of blood with sterile gauze or cotton.
4. Using a capillary pipette (5 µl) provided, while gently squeezing the tube, immerse the open end in the blood drop and then gently release the pressure to draw blood into the capillary pipette to black line. Or, Using a disposable loop (5 µl) provided, dip the circular end of a loop into the blood specimen. Or, Using a disposable inverted cup (5 µl) provided, dip the circular end of inverted cup into the blood specimen.

[Precaution]

1. Anticoagulants including heparin, EDTA and citrate do not affect the test results.
2. Use separate disposable capillary pipettes or pipette tips for each specimen in order to avoid cross contamination of specimens, which could produce erroneous results.
3. Discard the lancet or alcohol swab if package is pierced or damaged. The use of damaged lancet may cause any infection at the punctured skin due to cease to existing its sterility.
4. Repeated frozen-thawed cycle for specimen should be avoided.

### Test procedure (Refer to figure)

1. Bring all kit components and specimen to room temperature prior to testing.
2. Open foil pouch, place the test device on a flat, dry surface. Label the test device with a patient identifier. Perform the test immediately to avoid exposing the test device to humidity and moisture.
3. Clean the area to be lanced with an alcohol swab.
4. Squeeze the fingertip then prick the lateral side of the finger with the sterile lancet provided. Immediately, safely dispose of the lancet.
5. Using a capillary pipette (5 µl) provided, draw whole blood specimen to black line and then transfer drawn whole blood into the round specimen well. Or, using a disposable inverted cup (5 µl) provided, dip the circular end of inverted cup into the blood specimen and carefully place the circular end of the inverted cup into the round specimen well.
6. Holding the assay diluent buffer bottle vertically, dispense 4 drops into the square assay diluent well.  
**⚠ Caution :** Do not let bottle nozzle touch device in order to avoid cross-contamination. Hold bottle vertically while dispensing. If you do not hold the bottle vertically, it can lead to erroneous results.
7. Interpret test results 15 minutes (up to 30 minutes) after adding assay diluent. Reading outside of this time frame (before 15 min or after 30 min) may provide false results.

### Test interpretation (Refer to figure)

1. Negative result : The presence of control line ("C") within the result window indicates a negative result.
2. Positive result :  
**⚠ Caution :** The presence of any line, no matter how faint, the result is considered positive.
  - *P. falciparum* positive : The presence of two colored lines (test line "P.F" and control line "C") within the result window, regardless of which line appears first, indicates *P. falciparum* positive result.

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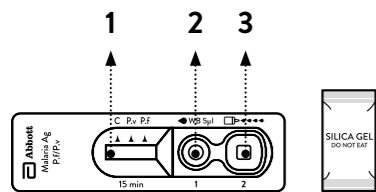
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Bioline™  
**Malaria Ag P.f/P.v**

Malaria HRP2 (P.f) and pLDH (P.v) Antigen Rapid Test

**PREPARATION**

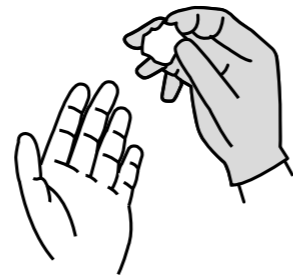
- Open the package and look for the following:
  - Test device with desiccant in individual foil pouch
  - Assay diluent
  - Disposable specimen applicator (5 µl)
  - Sterile lancet
  - Alcohol swab
  - Instructions for use
- First, carefully read the instructions for using the Bioline™ Malaria Ag P.f/P.v test kit.
- Next, look at the expiration date on the back of the foil pouch. If the expiration date has passed, use another lot. To avoid false results, ensure that the assay diluent used is from the same kit as the new test device.
- Open the foil pouch and look for the following:
  - Result window
  - Specimen well
  - Assay diluent well
 Then, label the device with the patient identifier.



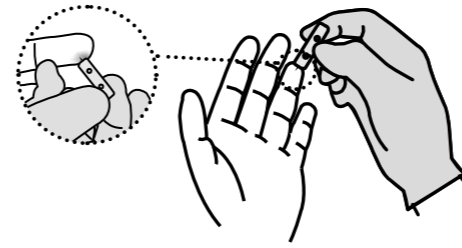
WB 5µl : Whole blood 5 µl  
 ▢▢▢▢▢ : Assay diluent 4 drops

**TEST PROCEDURE**

- Clean the area to be lanced with an alcohol swab.

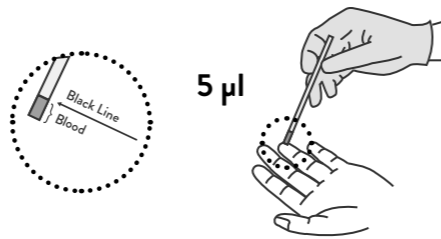


- Prick the lateral side of the finger with the sterile lancet provided. Then, safely dispose of the lancet immediately after.

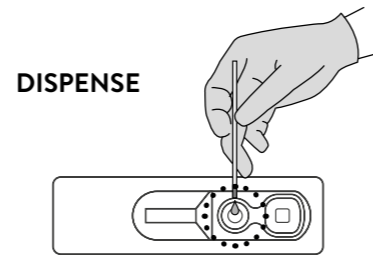


**Capillary pipette**

- Using a 5 µl capillary pipette, draw blood to black line.

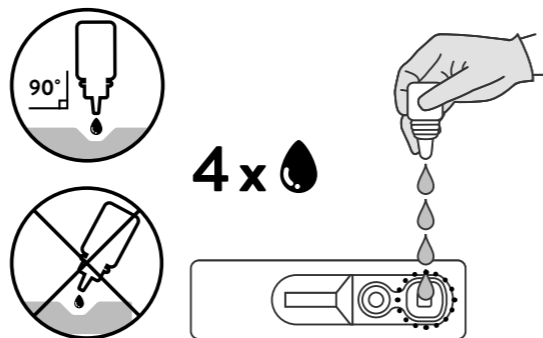


- Dispense 5 µl of drawn blood into round specimen well.



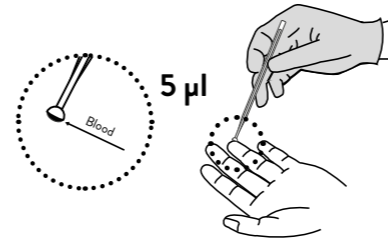
- Dispense 4 drops of assay diluent into the square assay diluent well.

**Caution:** Hold bottle vertically while dispensing. Do not let bottle nozzle touch device in order to avoid cross-contamination. If you do not hold the bottle vertically, it can lead to erroneous results.

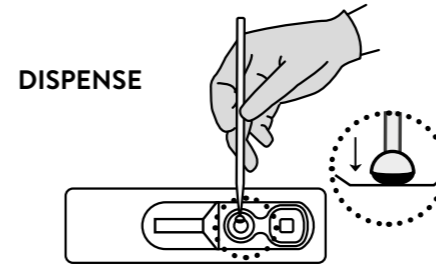


**Disposable inverted cup**

- Using a 5 µl capillary pipette, draw blood to black line.



- Dispense 5 µl of drawn blood into round specimen well.



Use Inverted cup : Let the circular end of the inverted cup touch the pad, then press down lightly.

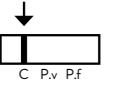
- Interpret test results 15 minutes (up to 30 minutes) after adding assay diluent. Reading outside of this time frame (before 15 min or after 30 min) may provide false results.



**TEST PROCEDURE**

**Negative**

No malaria P.f/P.v antigen  
One line "C" in the result window

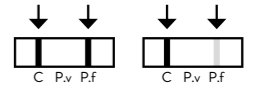


**Positive**

**Caution:** The presence of any line, no matter how faint, the result is considered positive.

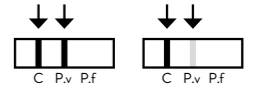
**P.f Positive**

Two colored lines  
(test line "P.f" and control line "C")



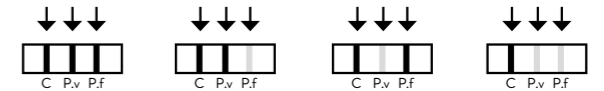
**P.v Positive**

Two colored lines  
(test line "P.v" and control line "C")



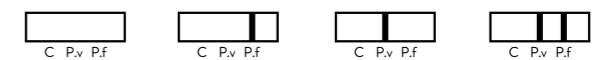
**Mixed infection of P.f and P.v**

Three colored lines (test lines "P.f", "P.v" and control line "C")



**Invalid**

If the control line "C" is not visible within the result window after performing the test, the result is considered invalid. Instructions may not have been followed correctly or the test may have deteriorated beyond the expiration date. It is recommended that the specimen be retested using a new test device.



**Glossary of symbols / Glosaire des symboles / Glosario de símbolos / Glossário de símbolos**

1°C - 40°C 34°F - 104°F	Store at 1 - 40 °C (34 °F - 104 °F)	LOT	Lot Number		Manufacturer
IVD	For in vitro diagnostic use only	REF	Catalog Number		Date of manufacture
	Do not reuse	EC REP	Authorized Representative		CE marking according to IVD Medical Devices Directive 98/79/EC
	Use By		Instructions for use		Keep away from sunlight
	Contains sufficient for X tests		Keep dry		Caution
	Do not use if package is damaged		Biological Risks		