

WHO Prequalification of In Vitro Diagnostics PUBLIC ASSESSMENT REPORT

Product: Bioline HCV

WHO reference number: PQDx 0257-012-00

Bioline HCV with product codes 02FK10, 02FK16 and 02FK17, manufactured by Abbott Diagnostics Korea Inc., Rest-of-World (RoW) regulatory version was accepted for the WHO list of prequalified in vitro diagnostics and was listed on 29 November 2016.

Summary of the WHO prequalification assessment for the Bioline HCV

	Date	Outcome
Prequalification listing	29 November 2016	listed
Dossier review	18 October 2016	MR
Product performance evaluation	8 August 2016	MR

MR: Meets requirements

Report amendments and product changes

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

Version	Summary of amendments and change request reference where applicable.	Date of report amendment
1.0 to 4.0	Inclusion of Instructions for Use.	8 March 2016
5.0	Correction of a typographical error	20 December 2016
6.0	Addition of specimen collected from a finger prick and subsequently two additional product codes (02FK16 and 02FK17)	26 March 2018
7.0	Addition of supplier for safety lancet	10 September 2018
8.0	The product name was changed from SD BIOLINE HCV to Bioline HCV.	3 March 2020

	The manufacturer's name changed from Standard Diagnostics Inc to Abbott Diagnostics Korea Inc	
9.0	Accessory labelling changes according to accessory manufacturer information change (Manufacturer name change and EU representative address change) (PQC-IVD-2024-0033).	24 March 2026

Intended use:

According to the claim of intended use from Abbott Diagnostics Korea Inc, *“the BiolineHCV is an in vitro immunochromatographic, rapid assay designed for the qualitative detection of antibodies specific to HCV, in human serum, plasma (heparin, EDTA and sodium citrate) or whole blood. Bioline HCV is intended only for professional use as the initial test, as an aid to diagnosis. Reactive specimens should be reflexed for additional testing, either by nucleic acid testing (NAT) technologies for the detection of HCV RNA or HCV core antigen testing, to identify current HCV infection. This product is intended for use in a population with high HCV prevalence or who have a history of HCV risk exposure/behaviour including pregnant women. This test may not be suitable for diagnosis of early infection or blood donation screening. The performance of the assay has not been established for populations of infants or children.”*

Product test kit contents:

Component	Product code(s)		
	02FK10	02FK16	02FK17
Specimen procedure(s)	Serum, plasma and whole blood (Venous whole blood and finger-prick blood)		
Test devices with desiccant in an individual foil pouch	30 T/kit	25 T/kit	25 T/kit
Assay diluent	1 x 5 mL/vial	1 x 5 mL/vial	1 x 5 mL/vial
Capillary pipette(s)	n/a	25 (10 µL each)	25 (10 µL each)
Sterile lancet(s)	n/a	25 (Sterile lancet)	25 (Safety lancet)
Alcohol swap(s)	n/a	25	25
Instructions for use	1	1	1

Items required but not provided:

- Micropipette
- Protective gloves
- Timer
- Biohazard container

Storage:

The test kit must be stored between 1 °C and 30 °C.

Shelf-life upon manufacture¹:

24 months.

Product dossier assessment

Abbott Diagnostics Korea Inc. (Formerly Standard Diagnostics, Inc.) submitted a product dossier for Bioline HCV as per the “*Instructions for compilation of a product dossier*” (PQDx_018 v1). The information (data and documentation) submitted in the product dossier was reviewed by WHO staff and external technical experts (assessors) appointed by WHO. The manufacturer's responses to the nonconformities found during dossier assessment findings were accepted on 18 October 2016.

Based on the product dossier assessment findings, the product dossier for Bioline HCV meets WHO prequalification requirements.

Manufacturing site inspection

The inspection of the manufacturing site(s) was conducted to assess whether the manufacturer's quality management system (QMS) and manufacturing practices are in alignment with:

- (i) applicable international standards, such as ISO 13485 (Medical devices – Quality management systems – Requirements for regulatory purposes);
- (ii) the manufacturer's own documented procedures and quality requirements; and

¹ The assigned device shelf-life is based on stability data generated from the date of manufacture. The finished goods shelf-life, calculated from the date of packaging completion, may be shorter depending on the time elapsed between manufacture and final packaging of the device.

(iii) other relevant international standards and guidelines applicable to in vitro diagnostic (IVD) medical devices. The WHO's Public Inspection Reports are accessible at:

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

Product performance evaluation

Bioline HCV was evaluated by WHO in the second quarter of 2016 using plasma specimens. From this evaluation, we drew the following conclusions:

- Bioline HCV assay is an immunochromatographic assay for the detection of antibodies to HCV in human serum, plasma and venous whole blood.
- A volume of 10 µL of a specimen is needed to perform the assay.
- This type of assay does require laboratory equipment (i.e. precision pipette and tips) and can be performed in laboratories with limited facilities.

In this limited performance evaluation on a panel of 483 specimens, we found the performance summarized below:

Performance characteristics in comparison with an agreed reference standard		
	Initial (95% CI)	Final (95% CI)
Sensitivity %	98.8% (95.6 – 99.7%)	100% (97.76 – 100%)
Specificity %	100% (98.85 – 100%)	100% (98.85 – 100%)
Invalid rate %	0%	

Additional performance characteristics	
Sensitivity during seroconversion on 4 seroconversion panels in comparison with a benchmark assay; DiaSorin Anti-HCV Murex EIA (Version 4.0)	Seroconversion sensitivity index of +2.0, therefore detection is 2 specimens (i.e. bleedings) later than the benchmark assay
Analytical sensitivity on a mixed titer panel in comparison with an agreed reference standard	15 of 15 specimens were correctly classified
Lot to lot variation on a dilution panel in comparison with an agreed reference standard	Acceptable
Key operational characteristics	
Validated specimen types	Serum, plasma (heparin, EDTA and sodium citrate), venous whole blood
Number of steps	3 without precision required
Time to result	5 minutes
Endpoint stability	20 minutes
Internal QC	Yes, the control line on the test device is an internal procedure control. The absence of the control line indicates that insufficient or improper assay diluent was added to the device.
In-use stability of reagents	Until expiry date

Labelling review

The labelling submitted for Bioline HCV was reviewed by WHO staff and external technical experts appointed by WHO. The review evaluated the labelling for clarity and consistency with the information submitted in the product dossier, alignment with international guidance and standards, and suitability for the intended users and settings in WHO Member States, including low- and middle-income countries.

The table below provides traceability of the labelling documents reviewed during the assessment, including document titles, version numbers, approval dates, and control identifiers.

02FK10

Document Type	Document Title	Version / Revision	Date Approved	Controlled Document No.
Outer box artwork	Package	A0	2019-11-26	02FK10-40-A0
Pouch / Device label	Device pouch label	A0	2019-11-01	FP26-A0
Reagent bottle labels	Assay diluent labels	A0	2019-10-25	FB07-A0
Instructions for Use (IFU)	IFU	A1	2022-12-23	02FK10/02FK16/02FK17-04-A1

02FK16

Document Type	Document Title	Version / Revision	Date Approved	Controlled Document No.
Outer box artwork	Package	A0	2019-11-26	02FK16-40-A0
Pouch / Device label	Device pouch label	A0	2019-11-01	FP26-A0
Reagent bottle labels	Assay diluent labels	A0	2019-10-25	FB07-A0
Capillary Tube	40005439	0	2024-05-21	D10151501
Sterile non-safety lancet	P65-008	0	2023-11-10	D10151501
Sterile non-safety lancet	40006487	0	2024-10-01	D10151501
IFU	IFU	A1	2022-12-23	02FK10/02FK16/02FK17-04-A1

02FK17

Document Type	Document Title	Version / Revision	Date Approved	Controlled Document No.
Outer box artwork	Package	A0	2019-11-26	02FK17-40-A0
Pouch / Device label	Device pouch label	A0	2019-11-01	FP26-A0
Reagent bottle labels	Assay diluent labels	A0	2019-10-25	FB07-A0
Capillary tube	40005439	0	2024-05-21	D10151501
Sterile safety lancet	P65-013/000/001	0	2023-11-10	D10151501
Sterile safety lancet	P65-013/003	0	2023-11-10	D10151501
Sterile safety lancet	P65-013/006	0	2023-11-10	D10151501
IFU	IFU	A1	2022-12-23	02FK10/02FK16/02FK17-04-A1

Labels



Bioline[®] HCV

Abbott



Abbott **Bioline[®] HCV**

EN Rapid, immunochromatographic test for the detection of antibody against Hepatitis C virus in human serum, plasma or whole blood	FR Test immunochromatographique rapide pour la détection des anticorps dirigés contre le virus de l'hépatite c dans le sérum, le plasma ou le sang total humains.	ES Rápida, prueba inmunocromatográfica para la detección de anticuerpos contra el virus de hepatitis C en el suero, plasma o sangre total.	PT TESTE imunocromatográfico rápido para a detecção do anticorpo anti-vírus de hepatite c em soro, plasma ou sangue total humanos.
CONTENTS: • 30 Test devices with desiccant in individual foil pouches • Assay diluent (1 x 5ml/vial) • 1 Instructions for use	CONTENU : • 30 cassettes-tests emballées individuellement avec un agent déshydratant • Diluant de test (1 x 5ml/flacon) • 1 Mode d'emploi	CONTENIDO : • 30 Dispositivos individuales de la prueba con un agente desecante • Diluyente del ensayo (1 x 5ml/vial) • 1 Instrucciones de uso	CONTEÚDO : • 30 dispositivos de teste individualmente embalados em bolsas de alumínio com um dessecante • Diluente de ensaio (1 x 5ml/frasco) • 1 Instruções de utilização

02FK10-40-A0

PRODUCT - Bioline™ HCV 30T

SIZE - 152 X 115 X 70 MM

 PMS 303 C
 PMS 143 C

PN. - 02FK10-40-A0
 REV. DATE - 2019.09.26
 CREATOR - THINKBOX

Abbott

Abbott

Abbott

Bioline[®] HCV

PRINT AREA

Bioline[®] HCV









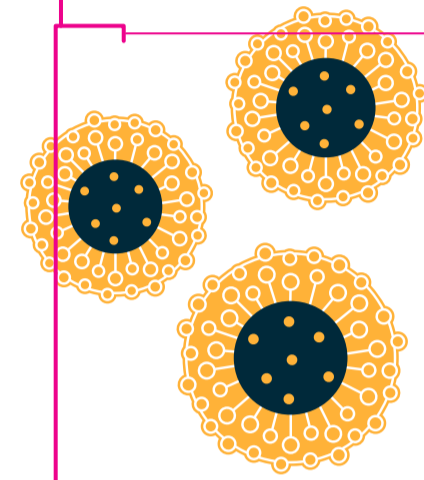
REF 02FK10



Bioline[®] HCV

Abbott Diagnostics Korea Inc.
65, Boraehallim, Cheongju, Yongsin-si,
Gyeonggi-do, 17099, Republic of Korea
abbott.com/koct

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HCV
Bioline™



02FK16-40-A0

EN
Rapid, immunochromatographic test for the detection of antibody against Hepatitis C virus in human serum, plasma or whole blood.

CONTENTS:
• 25 Test devices with desiccant in individual foil pouches
• Assay diluent (1 x 5 mL/vial)
• 25 Capillary pipettes (10 µL)
• 25 Sterile lancets, 25 Alcohol swabs
• 1 Instructions for use

FR
Test immunochromatographique rapide, pour la détection des anticorps dirigés contre le virus de l'hépatite c dans le sérum, le plasma ou le sang total humains.

CONTENU :
• 25 dispositifs de test avec agent déshydratant conditionnés dans des emballages individuels en aluminium
• Diluant de test (1 x 5 mL/flacon)
• 25 pipettes capillaires (10 µL)
• 25 lancettes stériles, 25 compresses d'alcool
• 1 mode d'emploi

ES
Rápida, prueba Inmunocromatográfica para la detección de anticuerpos contra el virus de hepatitis C en el suero, plasma o sangre total.

CONTENIDO :
• 25 dispositivos de prueba con desecante en bolsa de papel aluminio individuales
• Diluyente del ensayo (1 x 5 mL/vial)
• 25 pipetas capilares (10 µL)
• 25 Lancetas esterilizadas,
25 Compresas con alcohol
• 1 Instrucciones de uso

PT
TESTE imunocromatográfico rápido para a deteção do anticorpo anti-vírus da hepatite c em soro, plasma ou sangue total humanos.

CONTEÚDO :
• 25 Dispositivos de teste com dessecante em bolsa de folha de alumínio individuais
• Diluente de ensaio (1 x 5 mL/frasco)
• 25 Pipetas capilares (10 µL),
25 Lancetas esterilizadas,
25 Compressas com álcool
• 1 Instruções de utilização

Bioline™
HCV



PRINT AREA

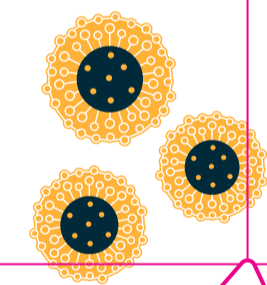
Bioline™
HCV



1°C - 30°C
34°F - 86°F



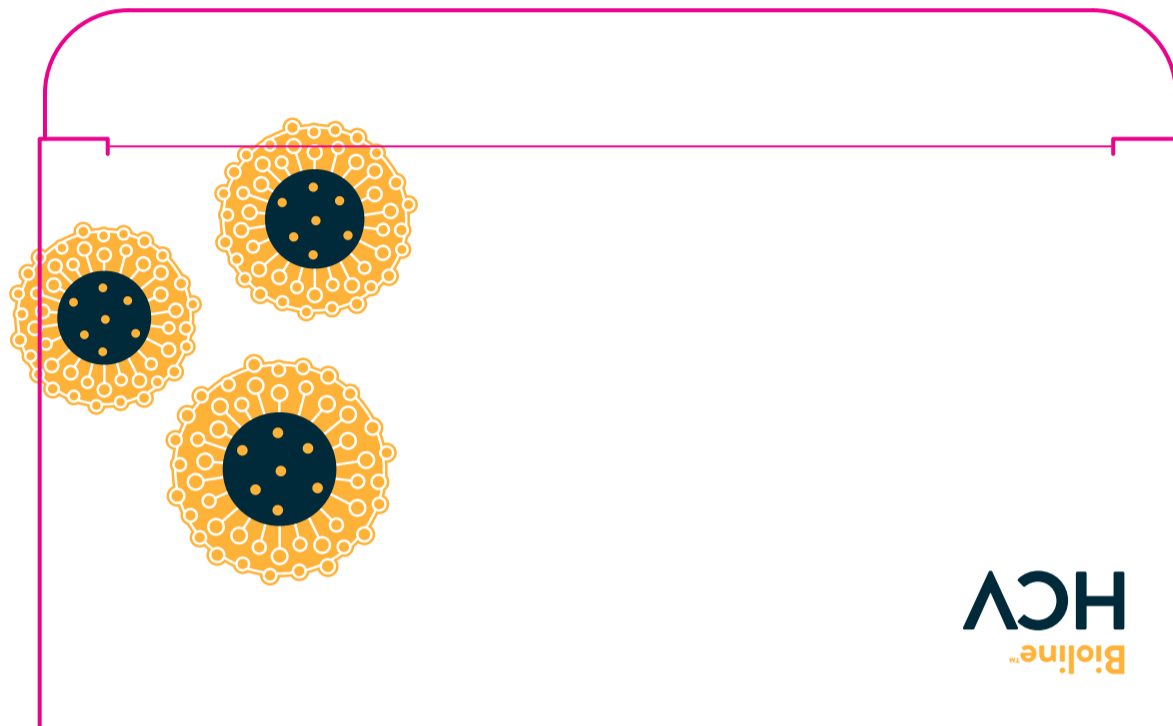
PRODUCT - Bioline™ HCV 25T	 PMS 303 C  PMS 143 C	PN. - 02FK16-40-A0 REV. DATE - 2019_09_26 CREATOR - THINKBOX
SIZE - 152 X 115 X 58 MM		



Bioline™
HCV

Abbott Diagnostics Korea Inc.
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Bioline[®]
HCV

Abbott

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EN
Rapid, immunochromatographic test for the detection of antibody against Hepatitis C virus in human serum, plasma or whole blood

FR
Test immunochromatographique rapide, pour la détection des anticorps dirigés contre le virus de l'hépatite c dans le sérum, le plasma ou le sang total humains.

ES
Rápida prueba inmunocromatográfica para la detección de anticuerpos contra el virus de hepatitis C en el suero, plasma o sangre total.

PT
TESTE imunocromatográfico rápido para a deteção do anticorpo anti-vírus da hepatite c em soro, plasma ou sangue total humanos.

CONTENTS :

- 25 Test devices with desiccant in individual foil pouches
- Assay diluent (1 x 5 ml/vial)
- 25 Capillary pipettes (10 µl)
- 25 Safety lancets, 25 Alcohol swabs
- 1 Instructions for use

CONTENU :

- 25 dispositifs de test avec agent deshydratant conditionnés dans des emballages individuels en aluminium
- Diluant de test (1 x 5 ml/frasco)
- 25 pipettes capillaires (10 µl)
- 25 Lancettes à aiguilles retractable, 25 compresses d'alcool
- 1 mode d'emploi

CONTENIDO :

- 25 dispositivos de prueba con desecante en bolsas de folio de aluminio individuales
- Diluyente del ensayo (1 x 5 ml/vial)
- 25 pipetas capilares (10 µl)
- 25 Lancetas de seguridad, 25 hisopos con alcohol
- 1 Instrucciones de uso

CONTEÚDO :

- 25 Dispositivos de teste com dessecante em bolsas de folha de alumínio individuais
- Diluente de ensaio (1 x 5 ml/frasco)
- 25 Pipetas capilares (10 µl)
- 25 Lancetas de segurança, 25 Compressas com álcool
- 1 Instruções de utilização

02FK17-40-A0

PRODUCT - Bioline™ HCV
25T, Safety Lancet

PN. - 02FK17-40-A0
REV. DATE - 2019_09_26
CREATOR - THINKBOX

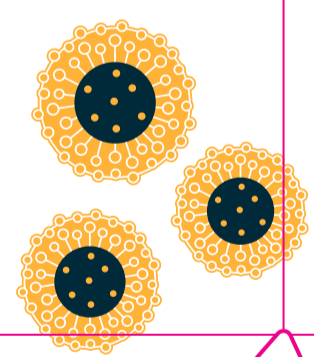
SIZE - 152 X 115 X 75 MM

PMS 303 C
PMS 143 C

PRINT AREA

Bioline[®]
HCV

1°C 34°F | 30°C 86°F | 25 | IVD | REF 02FK17



Bioline[®]
HCV

Abbott Diagnostics Korea Inc.
65, Borahagalli-ro, Gilheung-gu, Yongin-si,
Gyeonggi-do, 17099, Republic of Korea
abbott.com/pcot

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companies or their respective owners.

PRODUCT - Bioline™ AL pouch 1-30 °C
Non-CE

SIZE - 108 X 32 MM

 PMS 303 C
 PMS 2925 C

CAT NO. - FP26-A0
REV. DATE - 2019.10.28
CREATOR - SCOTT KIM

 **Abbott**

Bioline™
RAPID DIAGNOSTIC TEST

 **Abbott Diagnostics Korea Inc.**
65, Borahagal-ro, Giheung-gu, Yongin-si,
Gyeonggi-do, 17099, Republic of Korea

1°C - 30°C
34°F - 86°F



FP26-A0

ITEM ITEM: Bioline™

LOT LOT NO.:

MFG.DATE (YYYY.MM.DD)
EXP.DATE (YYYY.MM.DD)

11mm

PRODUCT - Biline™

Assay diluent label

SIZE - 50 X 16 MM



PMS 303 C



PMS 2925 C

CAT NO. - FB07-A0

REV. DATE - 2019.10.21

CREATOR - SCOTT KIM

	ITEM HCV
Biline™ ASSAY DILUENT	VOL 5ml/vial
IVD 1°C → 30°C	LOT XXXXXXXXX
<small>Abbott Diagnostics Korea Inc. FB07-A0</small>	Y YYY.MM.DD

XXXXXXXX_Capillary Tube (XXul)XXPCS_60×60



XXµl Capillary Tube

Code No. : XXXXXXXX
LOT No. : XXXXXXXX
Quantity : XXPCS
MFG Date : XXXX.XX.XX

(01)0880989962XXXX

HLB Life Science Co.,Ltd
101-908, Digital Empirell, 88, Sinwon-ro, Yeongtong-gu
Suwon-si, Gyeonggi-do, 16681, Republic Korea

EC REP Cmc Medical Devices & Drugs S.L.
C/ Horacio Lengo n18 C.P 29006 Málaga-Spain



XXµl Capillary Tube

Code No. : XXXXXXXX
LOT No. : XXXXXXXX
Quantity : XXPCS
MFG Date : XXXX.XX.XX

(01)0880989962XXXX

HLB Life Science Co.,Ltd
101-908, Digital Empirell, 88, Sinwon-ro, Yeongtong-gu
Suwon-si, Gyeonggi-do, 16681, Republic Korea

EC REP Cmc Medical Devices & Drugs S.L.
C/ Horacio Lengo n18 C.P 29006 Málaga-Spain



PANTONE Reflex Blue C
Shandong
Size:50X40

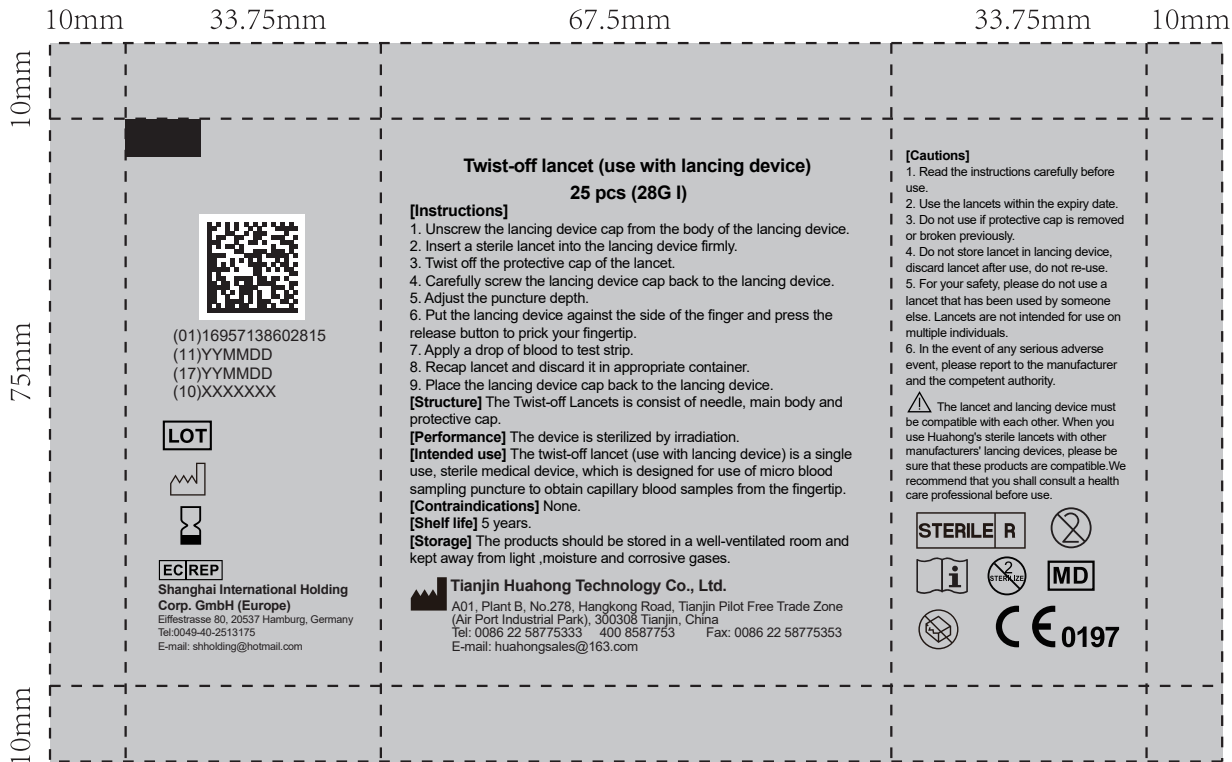
Sterile Lancet for single use

LOT LOT NO./Type : 2305267303 / 28G
EXP. DATE : 2028-06-04
QTY : 25pcs

STERILE R **CE** 0123 
010004451700443617288004193285287101

EC REP Shanghai International Holding Corp. GmbH (Europe)
Eiffelstrasse 60, 20537 Hamburg, Germany

Shandong Lianfa Medical Plastic Products Co., Ltd.
No. 3 Shuangshihai Sanjian Road, 250200 Zhangqiu City, Jinan, Shandong
PEOPLE'S REPUBLIC OF CHINA



(01)16957138602815
 (11)YYMMDD
 (17)YYMMDD
 (10)XXXXXXXX



Shanghai International Holding
 Corp. GmbH (Europe)
 Eiffestrasse 80, 20537 Hamburg, Germany
 Tel:0049-40-2513175
 E-mail: shholding@hotmail.com

**Twist-off lancet (use with lancing device)
 25 pcs (28G I)**

[Instructions]

1. Unscrew the lancing device cap from the body of the lancing device.
2. Insert a sterile lancet into the lancing device firmly.
3. Twist off the protective cap of the lancet.
4. Carefully screw the lancing device cap back to the lancing device.
5. Adjust the puncture depth.
6. Put the lancing device against the side of the finger and press the release button to prick your fingertip.
7. Apply a drop of blood to test strip.
8. Recap lancet and discard it in appropriate container.
9. Place the lancing device cap back to the lancing device.

[Structure] The Twist-off Lancets is consist of needle, main body and protective cap.

[Performance] The device is sterilized by irradiation.

[Intended use] The twist-off lancet (use with lancing device) is a single use, sterile medical device, which is designed for use of micro blood sampling puncture to obtain capillary blood samples from the fingertip.

[Contraindications] None.

[Shelf life] 5 years.

[Storage] The products should be stored in a well-ventilated room and kept away from light, moisture and corrosive gases.




Tianjin Huahong Technology Co., Ltd.

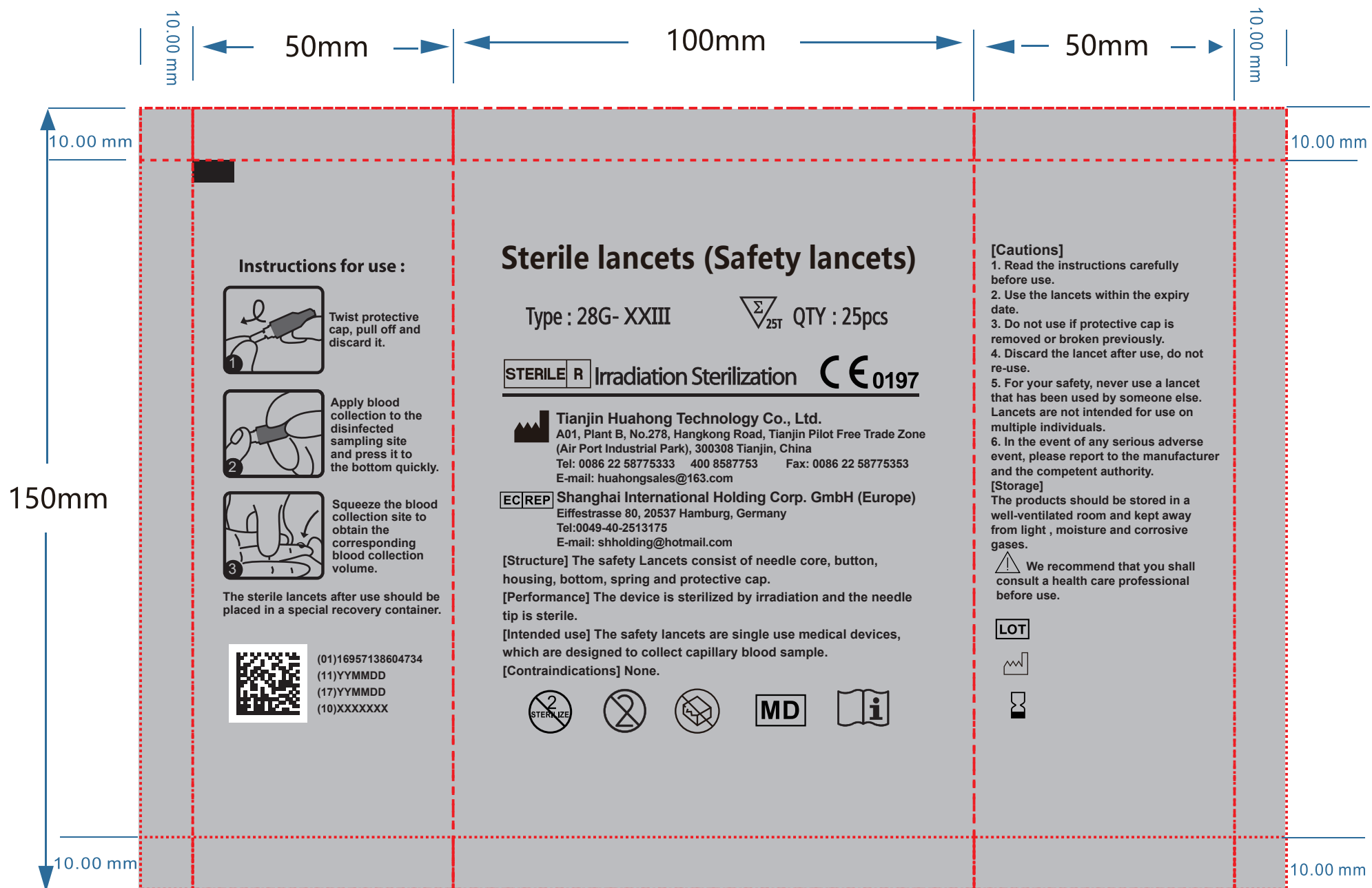
A01, Plant B, No.278, Hangkong Road, Tianjin Pilot Free Trade Zone
 (Air Port Industrial Park), 300308 Tianjin, China
 Tel: 0086 22 58775333 400 8587753 Fax: 0086 22 58775353
 E-mail: huahongsales@163.com

[Cautions]

1. Read the instructions carefully before use.
2. Use the lancets within the expiry date.
3. Do not use if protective cap is removed or broken previously.
4. Do not store lancet in lancing device, discard lancet after use, do not re-use.
5. For your safety, please do not use a lancet that has been used by someone else. Lancets are not intended for use on multiple individuals.
6. In the event of any serious adverse event, please report to the manufacturer and the competent authority.

 The lancet and lancing device must be compatible with each other. When you use Huahong's sterile lancets with other manufacturers' lancing devices, please be sure that these products are compatible. We recommend that you shall consult a health care professional before use.

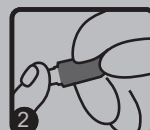




Instructions for use :



Twist protective cap, pull off and discard it.



Apply blood collection to the disinfected sampling site and press it to the bottom quickly.



Squeeze the blood collection site to obtain the corresponding blood collection volume.

The sterile lancets after use should be placed in a special recovery container.



(01)16957138604734
 (11)YYMMDD
 (17)YYMMDD
 (10)XXXXXX

Sterile lancets (Safety lancets)

Type : 28G- XXIII

QTY : 25pcs

STERILE R Irradiation Sterilization CE 0197

Tianjin Huahong Technology Co., Ltd.
 A01, Plant B, No.278, Hangkong Road, Tianjin Pilot Free Trade Zone
 (Air Port Industrial Park), 300308 Tianjin, China
 Tel: 0086 22 58775333 400 8587753 Fax: 0086 22 58775353
 E-mail: huahongsales@163.com

EC/REP Shanghai International Holding Corp. GmbH (Europe)
 Eiffestrasse 80, 20537 Hamburg, Germany
 Tel:0049-40-2513175
 E-mail: shholding@hotmail.com

[Structure] The safety Lancets consist of needle core, button, housing, bottom, spring and protective cap.

[Performance] The device is sterilized by irradiation and the needle tip is sterile.

[Intended use] The safety lancets are single use medical devices, which are designed to collect capillary blood sample.

[Contraindications] None.



[Cautions]

1. Read the instructions carefully before use.
2. Use the lancets within the expiry date.
3. Do not use if protective cap is removed or broken previously.
4. Discard the lancet after use, do not re-use.
5. For your safety, never use a lancet that has been used by someone else. Lancets are not intended for use on multiple individuals.
6. In the event of any serious adverse event, please report to the manufacturer and the competent authority.

[Storage]

The products should be stored in a well-ventilated room and kept away from light , moisture and corrosive gases.

We recommend that you shall consult a health care professional before use.

LOT



PANTONE Reflex Blue C
Shandong
Size:50X40

Safety Lancet

LOT LOT NO./Type : 23032692 / 28G
EXP. DATE : 2028-05-09
QTY : 25pcs

STERILE R **CE** 0123 

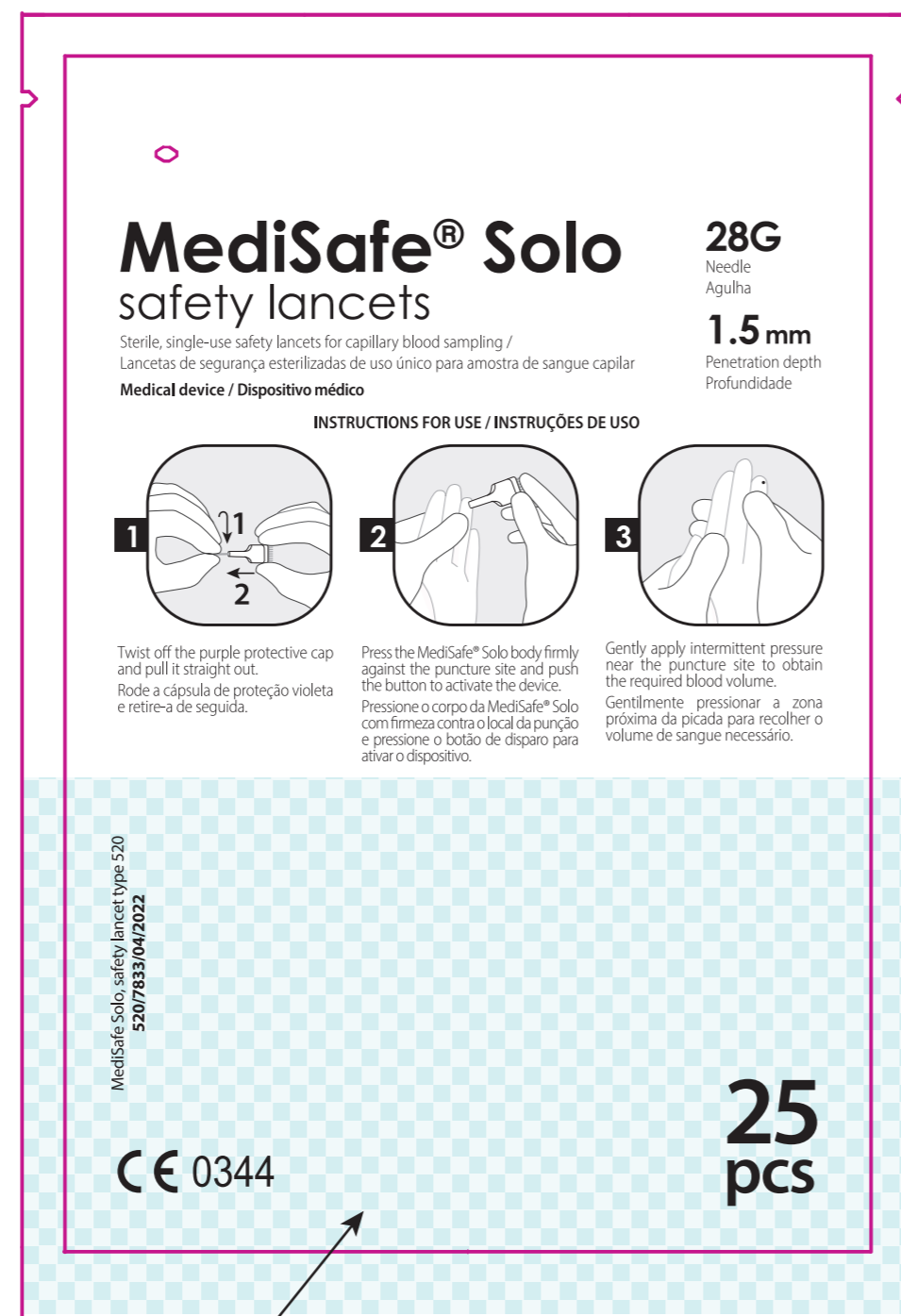
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EC REP Shanghai International Holding Corp. GmbH (Europe)
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Shandong Lianfa Medical Plastic Products Co., Ltd.
No. 3 Shuangshihai Sanjian Road 250200 Zhangou City, Jinan, Shandong
PEOPLE'S REPUBLIC OF CHINA

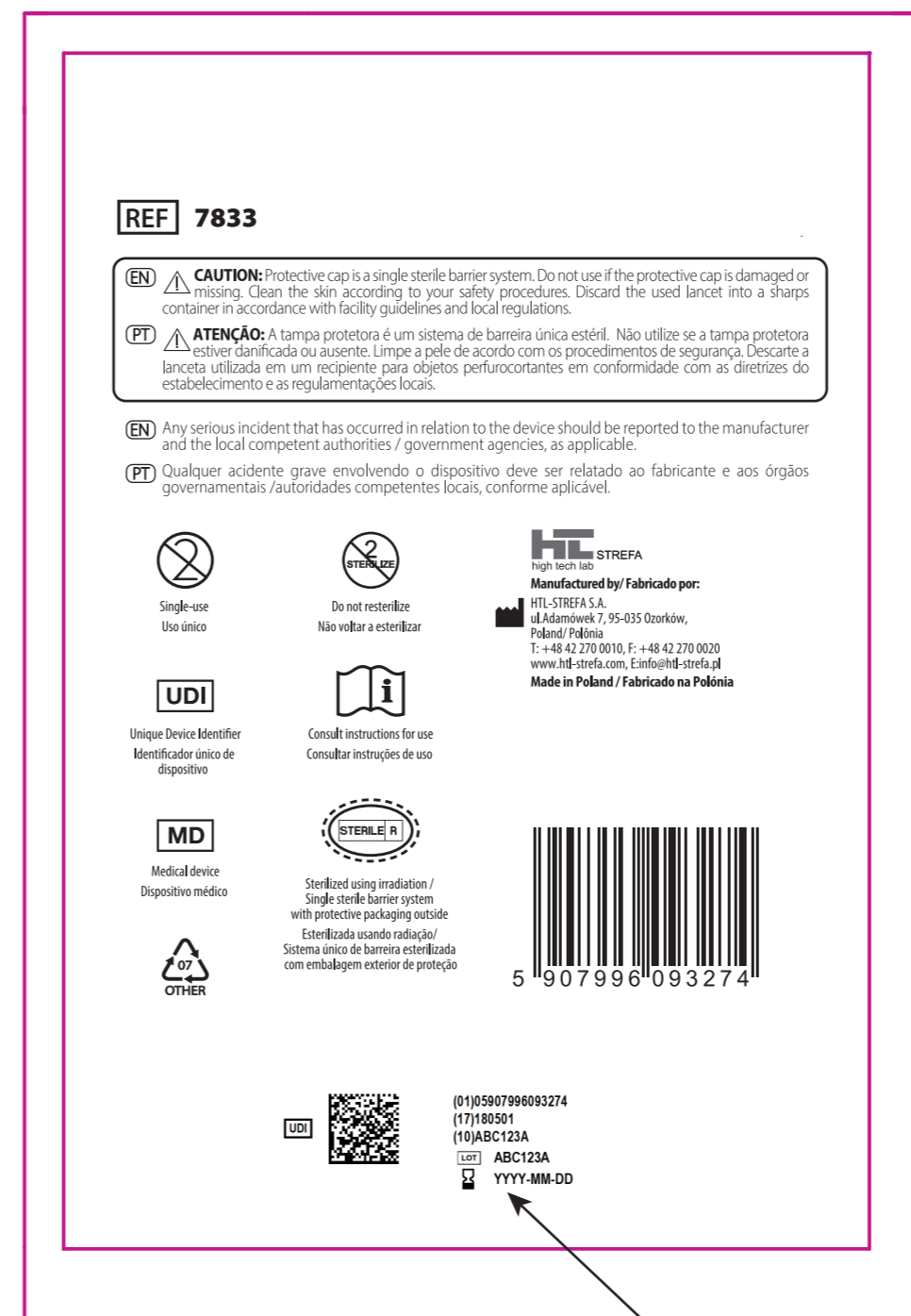
FRONT SIDE OF THE BAG

BACK SIDE OF THE BAG



WHITE BACKGROUND

WHITE BACKGROUND



- transparent window where the lancets are visible

UDI code printed directly on the bag during packing process

Instructions for use²

² 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) **Precise assay**
 Bioline™ HCV may exhibit precise effect. (False non-reactive result) in specimens which have higher than S/COD of approx. 11.0 in Abbott Architect and S/COD approx. 3.0 in Orbia HCV version 3.0 ELISA and HCV assays.
- 3) **Specimen matrix**
 Validation on whole blood was done by testing 500 negative and 100 positive anti-HCV specimens. The performance of Bioline™ HCV on whole blood was comparable to the performance on plasma specimens. (See table 1 and table 3 presented in study 2 above.) Validation on serum and different plasma specimen types (EDTA / Heparin / Sodium citrate) was performed by Geneva Red Cross. The results obtained on negative and positive specimens are identical on serum, EDTA plasma, heparin plasma and citrate plasma.
- | Specimen type | No. of positive specimens | Bioline™ HCV reactive/No. of positive specimens | No. of Bioline™ HCV non-reactive/No. of negative specimens |
|-------------------|---------------------------|---|--|
| Serum | 25/25 | 25/25 | 25/25 |
| EDTA plasma | 25/25 | 25/25 | 25/25 |
| Heparin plasma | 25/25 | 25/25 | 25/25 |
| No-Citrate plasma | 25/25 | 25/25 | 25/25 |
- 4) **Complement factors interference in fresh serum specimens**
 In total 25 negative specimens, spiked with an anti-HCV positive specimen were tested within 24 hours after collection and retested after being stored at 4 °C for 1, 2, 3 and 4 days. No differences were observed on the results obtained on the fresh specimens and the same specimens stored for 1 to 4 days at 4 °C.

- 2) **Effet precise**
 Le test Bioline™ HCV peut subir un effet précis (résultat faussément non réactif) pour les échantillons présentant un ratio signal/bruit supérieur à environ 11,0 au test ELISA anti-HCV Abbott Architect et un ratio signal/bruit égal à environ 3,0 au test ELISA anti-HCV Orbia HCV version 3.0.
- 3) **Matrice d'échantillon**
 La validation sur sang total a été réalisée en testant 500 échantillons négatifs pour les anticorps anti-HCV et 100 échantillons positifs. Les performances du test Bioline™ HCV sur sang total étaient comparables à ses performances sur des échantillons de plasma (voir les tableaux 1 et 3 présentés pour l'étude 2 ci-dessus). La validation sur sérum et sur différents types d'échantillon de plasma (EDTA/héparine/citrate de sodium) a été réalisée par la Croix-Rouge allemande. Les résultats obtenus pour les échantillons positifs et négatifs sont identiques pour le sérum, le plasma avec EDTA, le plasma avec héparine et le plasma avec citrate.
- | Type d'échantillon | Nbre d'échantillons positifs | Bioline™ HCV réactif/ Nbre d'échantillons positifs | Nbre d'échantillons Bioline™ HCV non réactifs/ Nbre d'échantillons négatifs |
|--------------------|------------------------------|--|---|
| Sérum | 25/25 | 25/25 | 25/25 |
| Plasma EDTA | 25/25 | 25/25 | 25/25 |
| Plasma héparine | 25/25 | 25/25 | 25/25 |
| Plasma Na-citrate | 25/25 | 25/25 | 25/25 |
- 4) **Interférence des facteurs du complément dans les échantillons de sérum frais**
 Au total, 25 échantillons négatifs additionnés d'un échantillon positif pour les anticorps anti-HCV ont été testés dans les 24 heures suivant leur prélèvement, puis de nouveaux après conservation à 4 °C pendant 1, 2, 3 et 4 jours. Aucune différence n'a été observée entre les résultats obtenus avec les échantillons frais et les mêmes échantillons conservés pendant 1 à 4 jours à 4 °C.

- 4) **Interferencia de factores complementarios en muestras de suero fresco**
 En total, se evaluaron 25 muestras negativas, enriquecidas con una muestra positiva de anti-VHC, dentro de los 24 horas siguientes a la extracción y se volvieron a evaluar después de estar almacenadas a 4 °C durante 1, 2, 3 y 4 días. No se observaron diferencias en los resultados obtenidos en las muestras frescas y en las mismas muestras almacenadas por 1 a 4 días a 4 °C.
- | 25 muestras negativas | Bioline™ HCV | |
|-----------------------|--------------|-------------|
| | Reactiv | Non reactif |
| jour 0 | 25 | 0 |
| jour 1 | 25 | 0 |
| jour 2 | 25 | 0 |
| jour 3 | 25 | 0 |
| jour 4 | 25 | 0 |
- 5) **Si demostró la reproducibilidad de la prueba Bioline™ HCV con resultados dentro de una misma sesión, entre series y entre diferentes lotes, con pánels de referencia internos. Todos los valores obtenidos fueron idénticos a los criterios de aceptabilidad del panel de referencia.**

- 4) **Interferencia de fatores complementares e amostras de suero fresco**
 No total, 25 amostras negativas, enriquecidas com uma amostra de anti-VHC positiva foram testadas no espaço de 24 horas após coleta e reavaliadas após estarem armazenadas a 4 °C durante 1, 2, 3 e 4 dias. Não foram observadas diferenças nos resultados obtidos nas amostras frescas e na mesma amostra armazenada durante 1 a 4 dias a 4 °C.
- | 25 amostras negativas | Bioline™ HCV | |
|-----------------------|--------------|--------------|
| | Reativo | Não-reactivo |
| dia 0 | 25 | 0 |
| dia 1 | 25 | 0 |
| dia 2 | 25 | 0 |
| dia 3 | 25 | 0 |
| dia 4 | 25 | 0 |
- 5) **A reproducibilidade de teste Bioline™ HCV foi demonstrada por estudos internos, entre amostras e de lotes para a lote utilizando painéis de referência internos. Todos os valores foram idênticos aos critérios de aceitação dos painéis de referência.**

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 this diagnosis should consult a doctor for further confirmation of the test result.

Classe de non-responsabilité:
 Bien que toutes les précautions aient été prises pour garantir les performances diagnostiques et la précision de ce produit, il est utilisé en dehors du contrôle du fabricant et du distributeur. Les résultats peuvent être affectés par des facteurs environnementaux et/ou une erreur d'utilisation. Il est fortement recommandé au patient avant tout le diagnostic de consulter un médecin pour confirmer le résultat du test.

Atenção:
 Os fabricantes e distribuidores de este produto não serão responsáveis por perdas diretas, indiretas e derivadas, obrigações, reclamações, custos e danos vinculados a relacionados com um resultado reativo e não reativo incorreto utilizando este produto.

Aviso:
 Os fabricantes e os distribuidores deste produto não se responsabilizam por quaisquer perdas diretas, indiretas ou consequenciais, compensações, reclamações, custos ou danos resultantes ou relacionados com um diagnóstico incorreto, seja este reativo ou não reativo, quando do utilização do produto.

Bibliography of suggested reading / Bibliographie			
1. Park C, Condon W, Chu L, Spector AB, Fromont-Ravot C, Charlier M, Rice E. Expression and Identification of Hepatitis C Virus Polyprotein Cleavage Products. <i>Journal of Virology</i> , March 1998, p.1385-1395.	4. A. Yoshikawa, K. Takahashi, S. Kishimoto : Serodiagnosis of hepatitis C virus infection by ELISA for antibodies against the putative core protein (p20C) expressed in Escherichia coli. <i>Journal of Immunological Methods</i> , 148 (1992) 143-150.	7. Young Gyu Cho, Min Kyung Yi, Young Eui Jung, Chang Wuk Kim and Young Chul Sung : Cloning and Characterization of the Highly Immunogenic Region of HCV Genome from Korean Patients. <i>Mol. Cells</i> , Vol. 3, 4: 477-480.	10. S. Ohnawa, E. Caccamo, S. Griva, F. Gambetta, R. Calogeri, C. Ross and F. Bonelli : Expression in E. coli and purification of a chimeric p22-N53 recombinant antigen of Hepatitis C Virus(HCV). <i>Federation of European Biochemical Societies</i> , Volume 324, number 3, 253-257.

Bibliography of suggested reading / Bibliographie			
2. Young Gyu Cho, Min Kyung Yi, Young Eui Jung, Chang Wuk Kim and Young Chul Sung : Cloning and Characterization of the Highly Immunogenic Region of HCV Genome from Korean Patients. <i>Mol. Cells</i> , Vol. 3, 4: 477-480.	5. Mitchell BL, et al. Impact freeze-thaw cycles and storage time on plasma samples used in mass spectrometry based biomarker discovery projects. <i>Cancer Informatics</i> , 2007;6:168-184.	8. Cuhadar S, et al. The effect of storage time and freeze-thaw cycles on the stability of serum samples. <i>Biochimica Medica</i> , 2013;23(1):70-77.	9. A. Yoshikawa, K. Takahashi, S. Kishimoto : Serodiagnosis of hepatitis C virus infection by ELISA for antibodies against the putative core protein (p20C) expressed in Escherichia coli. <i>Journal of Immunological Methods</i> , 148 (1992) 143-150.

Date issued : 2021-10-02
 02FK16/02FK16/02FK17-04-01

PREPARATION / PRÉPARATION / PREPARACIÓN / PREPARAÇÃO

- 1) **Open the package and look for the following:**
 1. Test device with desiccant in individual foil pouch
 2. Assay diluent
 3. Instructions for use
- 2) **Abra el paquete y busque los siguientes elementos:**
 1. Dispositivo de prueba con desecante en bolsa de papel aluminio individual
 2. Diluyente del ensayo
 3. Instrucciones de uso
- 3) **Ouvrir l'emballage et identifier les éléments suivants :**
 1. Dispositif de test avec agent déshydratant conditionné dans un emballage en aluminium individuel
 2. Diluant du test
 3. Mode d'emploi
- 4) **Abra a embalagem e procure o seguinte:**
 1. Dispositivo de teste com dessecante em bolsa de folha de alumínio individual
 2. Diluente de ensaio
 3. Instruções de utilização

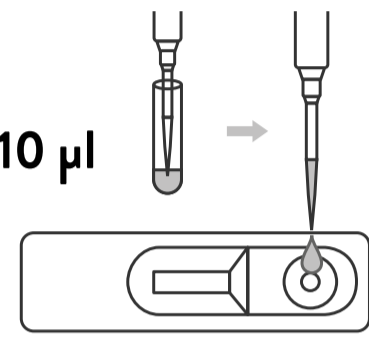
Including only for Catalog No. 02FK16 and 02FK17
 Contenu, numéros catalogue 02FK16 et 02FK17 uniquement
 Incluidos solo para los N.º de catálogo 02FK16 y 02FK17
 Incluídas apenas para os códigos de catálogos 02FK16 e 02FK17

- 1) **Capillary pipette (10 µl)**
 2. Lancet
 3. Alcohol swab
- 2) **Pipette capillaire (10 µl)**
 2. Lancette
 3. Compresse d'alcool
- 3) **Pipeta capilar (10 µl)**
 2. Lanceta
 3. Hisopo com álcool
- 4) **Pipeta capilar (10 µL)**
 2. Lanceta
 3. Zaragatoa com álcool

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

I. Blood (by venipuncture), Plasma or Serum specimen / I. Échantillon de sang (par ponction veineuse), de plasma ou de sérum / I. Muestra de sangre (por venopunción), plasma o soro / I. Amostra de sangue (por punção venosa), plasma o soro

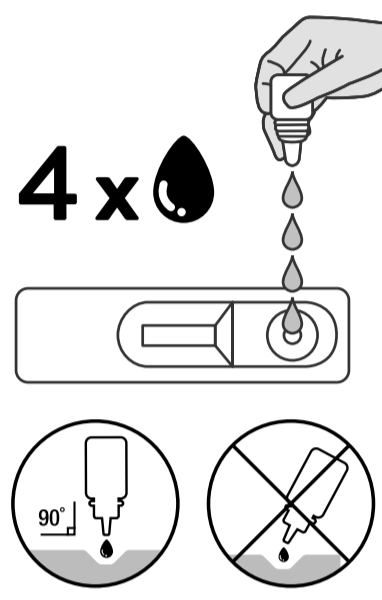
- 1) **Take 10 µl of serum, plasma or whole blood specimen using a micropipette. Dispense 10 µl of serum, plasma or whole blood specimen into the specimen well "S".**
 2) **Prélever 10 µl d'échantillon de sérum, de plasma ou de sang total à l'aide d'une micropipette. Déposer 10 µl d'échantillon de sérum, de plasma ou de sang total dans les puits d'échantillon « S ».**
 3) **With a micropipette, tome 10 µl of the muestra de soro, plasma o sangue. Installe 10 µl de la muestra de suero, plasma o sangue en el espacio para muestras "S".**
 4) **Tire 10 µl de amostra de soro, plasma ou de sangue total com uma micropipeta. Deite 10 µl de amostra de soro, plasma o sangue total no poço da amostra "S".**



- 3) **Interpret test results 5 - 20 minutes after adding assay diluent. Reading outside of this time frame (before 5 min or after 20 min) may provide false results.**
 4) **Interpréter les résultats du test 5 à 20 minutes après l'ajout du diluant. Toute lecture en dehors de cette période (avant 5 minutes ou après 20 minutes) peut donner lieu à des résultats erronés.**
 5) **Una vez transcurridos de 5 a 20 minutos de haber agregado el diluyente del ensayo, interprete los resultados. Leer el resultado fuera de ese marco de tiempo (antes de los 5 minutos o después de los 20 minutos) puede arrojar resultados falsos.**
 6) **Interprete os resultados do teste 5 - 20 minutos após adicionar o diluente do ensaio. Efetuar a leitura fora deste intervalo de tempo (antes dos 5 minutos ou após os 20 minutos) pode fornecer resultados incorretos.**

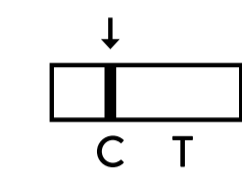


- 4) **Hold assay diluent bottle vertically and dispense 4 drops of assay diluent into the specimen well "S". Exactly, 4 drops should be added. Do not let bottle tip touch device in order to avoid cross-contamination.**
 5) **Tenir le flacon de diluant du test à la verticale et déposer 4 gouttes dans le puits d'échantillon « S ». Il faut ajouter très exactement 4 gouttes. Ne pas mettre l'embout du flacon en contact avec le dispositif afin d'éviter toute contamination croisée.**
 6) **Sostenga la botella del diluyente del ensayo en forma vertical y deposite 4 gotas del diluyente del ensayo en los pocillos para muestras "S". Agregue exactamente 4 gotas. No permita que la punta de la botella entre en contacto con el dispositivo a fin de evitar la contaminación cruzada.**
 7) **Mantenha o frasco de diluente do ensaio na posição vertical e deite 4 gotas de diluente do ensaio no poço para o poço da amostra "S". Devem ser adicionadas, exatamente, 4 gotas. Não deixe a ponta do frasco tocar no dispositivo de modo a evitar a contaminação cruzada.**



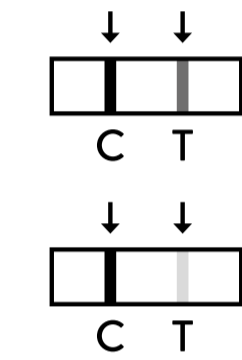
TEST INTERPRETATION / INTERPRÉTATION DU TEST / INTERPRETACIÓN DE LA PRUEBA / INTERPRETAÇÃO DO TESTE

- 1) **The presence of only the control line (C) within the result window indicates a non-reactive result.**
 2) **La présence de la ligne de contrôle uniquement (C) dans la fenêtre de résultat indique un résultat non réactif.**
 3) **Si solo aparece la línea de control (C) en la ventana de resultados, el resultado es no reactivo.**
 4) **A presença apenas da linha de controle (C) dentro da janela de resultados indica um resultado não reativo.**



REACTIVE / RÉACTIF / REACTIVO / REATIVO

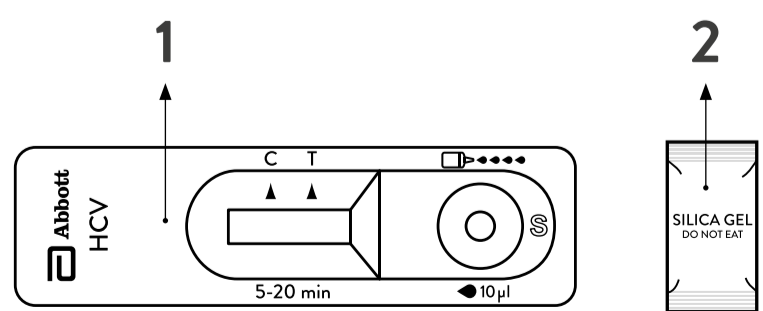
- 5) **The presence of the test line (T) and the control line (C) within the result window, regardless of which line appears first, indicates a reactive result.**
 6) **La présence de la ligne de teste (T) et de la ligne de contrôle (C) dans la fenêtre de résultat, quelle que soit la ligne apparue en premier, indique un résultat réactif.**
 7) **Si aparecen la línea de prueba (T) y la línea de control (C) en la ventana de resultados, independientemente del orden de aparición, el resultado es reactivo.**
 8) **A presença da banda de teste (T) e da linha de controle (C) dentro da janela de resultados, independentemente da linha que aparecer primeiro, indica um resultado reativo.**
- 9) **Caution: The presence of any test line, no matter how faint, the result is considered reactive.**
 10) **Mise en garde: si la ligne de test est présente, même très pâle, le résultat est considéré comme réactif.**
 11) **Precaución: La presencia de cualquier línea de prueba, aunque sea de un color débil, indica que el resultado es reactivo.**
 12) **Atenção: a presença de qualquer linha de teste, mesmo sendo muito tênue, significa que o resultado é considerado reativo.**



- 2) **Carefully read the instructions on how to use the Bioline™ HCV test kit.**
 3) **Lea con atención las instrucciones de uso del kit de prueba Bioline™ HCV.**
- 4) **Lire attentivement le mode d'emploi du kit de test Bioline™ HCV.**
 5) **Leia com atenção as instruções de utilização do kit de teste Bioline™ HCV.**

- 3) **Look at the expiration date at the back of the foil pouch. If the expiration date has passed, use another kit. To avoid false results, ensure that the assay diluent used is from the same kit as the new test device.**
 4) **Lea la fecha de vencimiento indicada en la parte posterior de la bolsa. Si la fecha ya ha pasado, use otro kit. Para evitar falsos resultados, asegúrese de que el diluyente del ensayo utilizado sea del mismo kit que el dispositivo de prueba nuevo.**
- 5) **Vérifier la date de péremption à l'arrière de l'emballage en aluminium. Si elle est dépassée, utiliser un autre kit. Pour éviter d'obtenir des résultats erronés, veiller à utiliser le diluant du test provenant du même kit que le nouveau dispositif de test.**
 6) **Verifique o prazo de validade na parte posterior da bolsa de folha de alumínio. Se o prazo de validade tiver sido ultrapassado, utilize outro kit. Para evitar resultados falsos, certifique-se de que o diluente do ensaio utilizado é do mesmo kit que o novo dispositivo do teste.**

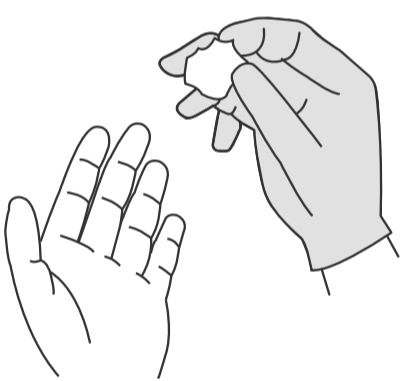
- 4) **Open the foil pouch and look for the following:**
 1. Test device
 2. Desiccant
 Then, label the device with the patient identifier.
- 5) **Abra la bolsa de papel aluminio y busque los siguientes elementos:**
 1. Dispositivo de prueba
 2. Desecante
 Luego, etiquete el dispositivo de prueba con un identificador del paciente.
- 6) **Ouvrir l'emballage en aluminium et identifier les éléments suivants :**
 1. Dispositif de test
 2. Agent déshydratant
 Apposer ensuite une étiquette indiquant l'identifiant du patient sur le dispositif de test.
- 7) **Abra a bolsa de folha de alumínio e procure o seguinte:**
 1. Dispositivo de teste
 2. Dessecante
 Em seguida, coloque uma etiqueta no dispositivo com o identificador do paciente.



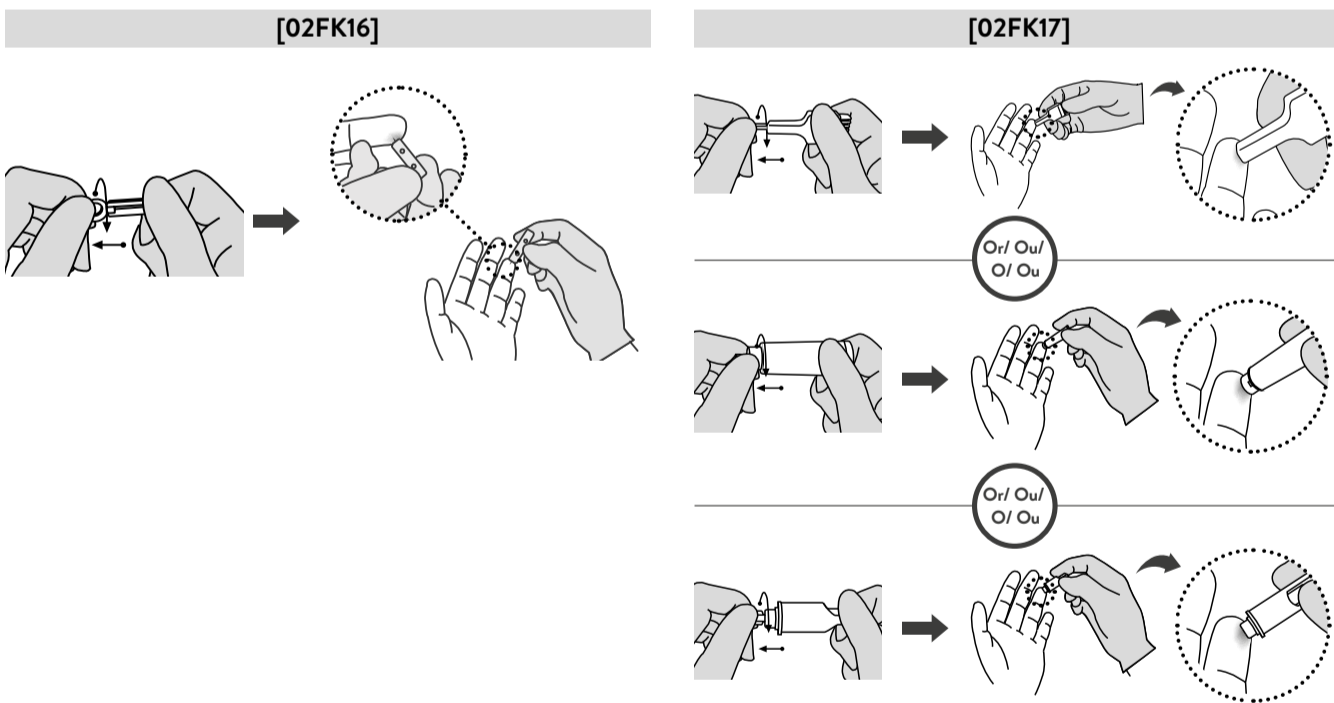
- 10 µl : 10 µl of serum, plasma or whole blood specimen / 10 µl d'échantillon de sérum, de plasma ou de sang total / 10 µl de la muestra de suero, plasma o sangre / 10 µl de amostra de soro, plasma ou de sangue total
- 4 drops : Assay diluent 4 drops / Diluant du test 4 gouttes / Diluyente del ensayo 4 gotas / Diluente de ensaio 4 gotas

II. Blood specimen (with a lancet) / II. Échantillon de sang (avec une lancette) / II. Muestra de sangre (con una lanceta) / II. Amostra de sangue (com uma lanceta)

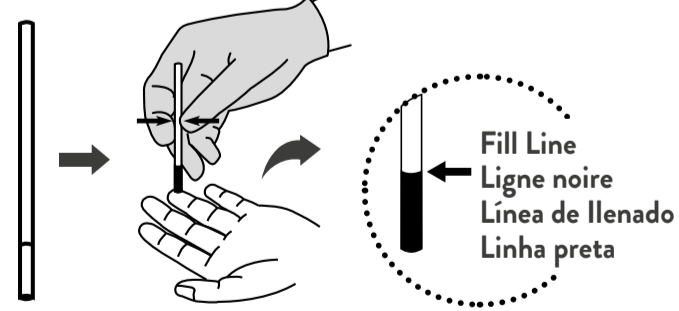
- 1) **Clean the area to be lanced with an alcohol swab.**
 2) **Nettoyer la zone de prélèvement avec une compresse d'alcool.**
 3) **Limpie la zona en la que utilizará la lanceta con un hisopo con alcohol.**
 4) **Limpe a área a lancetar com uma zaragatoa com álcool.**



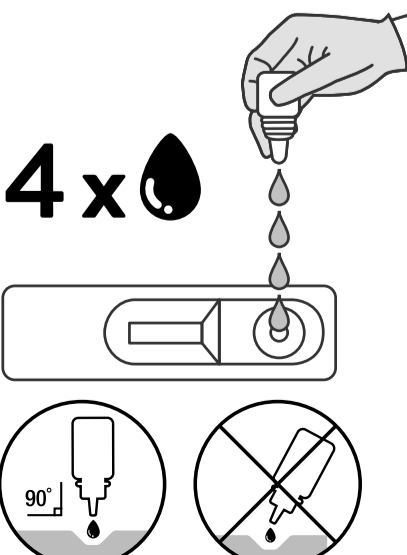
- 5) **Squeeze the fingertip then prick the lateral side of the finger with a lancet provided. Wipe away the first blood drop. Then, safely dispose of the lancet immediately after.**
 6) **Apriete la punta del dedo y luego pinche el costado del dedo con la lanceta provista. Limpie la primera gota de sangre. Inmediatamente después, deseché la lanceta de manera segura.**
 7) **Presser le bout du doigt et piquer le côté latéral du doigt avec une lancette fournie. Essuyer la première goutte de sang. Immédiatement après, jeter la lancette conformément aux règles de sécurité.**
 8) **Aperte a ponta do dedo e faça a lateral do dedo com uma lanceta fornecida. Limpe a primeira gota de sangue. Em seguida, elimine a lanceta em segurança imediatamente após a utilização.**



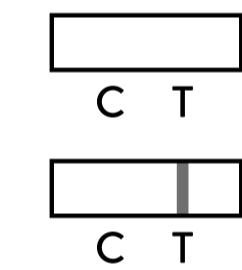
- 3) **Immerse the open end of a new capillary pipette (10 µl) in the next blood drop and release the pressure to draw blood into the capillary pipette up to the fill line.**
 4) **Immerger l'extrémité ouverte d'une pipette capillaire neuve (10 µl) dans la goutte de sang suivante, puis relâcher la pression pour aspirer le sang dans la pipette capillaire jusqu'au trait de remplissage.**
 5) **Sumerja el extremo abierto de una nueva pipeta capilar (10 µl) en la siguiente gota de sangre y alivia la presión para introducir la sangre en la pipeta capilar hasta alcanzar la línea de llenado.**
 6) **Com uma nova pipeta capilar (10 µL), mergulhe a extremidade aberta na gota de sangue seguinte e, em seguida, liberte a pressão para colher o sangue para a pipeta capilar até a marca.**



- 5) **Hold assay diluent bottle vertically and dispense 4 drops of assay diluent into the specimen well "S". Exactly, 4 drops should be added. Do not let bottle tip touch device in order to avoid cross-contamination.**
 6) **Interpréter les résultats du test 5 à 20 minutes après l'ajout du diluant. Toute lecture en dehors de cette période (avant 5 minutes ou après 20 minutes) peut donner lieu à des résultats erronés.**
 7) **Una vez transcurridos de 5 a 20 minutos de haber agregado el diluyente del ensayo, interprete los resultados. Leer el resultado fuera de ese marco de tiempo (antes de los 5 minutos o después de los 20 minutos) puede arrojar resultados falsos.**
 8) **Interprete os resultados do teste 5 - 20 minutos após adicionar o diluente do ensaio. Efetuar a leitura fora deste intervalo de tempo (antes dos 5 minutos ou após os 20 minutos) pode fornecer resultados incorretos.**



- 9) **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. It is recommended that the specimen be retested using a new test device.**
 10) **Si la ligne de contrôle (C) n'est pas visible dans la fenêtre de résultat après la réalisation du 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. Il est recommandé d'analyser à nouveau l'échantillon à l'aide d'un nouveau dispositif de test.**
 11) **Si no se ve la línea de control (C) en la ventana de resultados después de ejecutar la prueba, se considera que no hay un resultado válido. Esta situación puede deberse a que no se siguieron correctamente las instrucciones o a que la prueba se haya deteriorado. Se recomienda volver a analizar la muestra con un dispositivo de prueba nuevo.**
 12) **Se a linha de controle (C) não estiver visível dentro da janela de 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. 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

Temperature limitation Limitation de température Límite de temperatura Limite de temperatura	LOT Lot Number Nbre de lot Número de Lote Número de lote	Manufacturer Fabricant Fabricante Fabricante	Do not use if package is damaged Ne pas utiliser si l'emballage est endommagé No utilizar si el envase está dañado Não utilizar se o embalagem estiver danificada
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 Catalogue number Número de référence Número de catálogo Número de catálogo	Date of manufacture Date de fabrication Fecha de fabricación Data de fabricacao	Keep dry Conserver au sec Manténgase seco Conserver seco
Do not reuse Ne pas réutiliser No Reutilizar Não reutilizar	Consult instructions for use Consulter le mode d'emploi Consulte as instruções de uso Consulte as instruções de utilização	Biological Risks Risques biologiques Riscos biológicos Riscos biológicos	Caution Mise en garde Precaution Atenção
Use By Date de péremption Fecha de caducidad Utilizar até	Contains sufficient for (s) tests Permet de réaliser (s) tests Contient suffisante pour (s) pruebas Contém o suficiente para (s) testes	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	