

# REF 01FK10W

**Abbott**

**BioLine**

**HBsAg WB**

## HBsAg Rapid Test teste rapide de HBsAg Prueba rápida de HBsAg Teste rápido HBsAg

### ENGLISH

**About the test**  
 The presence of hepatitis B is caused by the infectious Hepatitis B virus (HBV). HBV DNA is estimated to have infected 400 million people throughout the globe, making HBV one of the most common human pathogens. It is mainly transmitted between people through contact with infected blood, frequently from mother to child at birth. Serum specimens, also a possible means of transmission. There are several types of transmission. A variety of serological assays may be employed to differentiate the type of viral infection as well as to discriminate between chronic and acute hepatitis B virus (HBV) infection. The sensitive and specific methods used commercially in diagnosis are the immunochromatographic test, radioimmunoassay (RIA) and enzyme-linked immunosorbent assay (ELISA).

**[Principle]** The membrane is pre-coated with monoclonal anti-HBsAg pool on the test line region and Mouse monoclonal anti-hepatitis B core (anti-HBc) on the control line region. During testing, the specimen is allowed to react with the colorimetric antigen-antibody complex well formed in advance depending upon pre-coated on the test strip. The mixture (mouse monoclonal anti-HBsAg + HBsAg in specimen) then moves upward on the membrane chromatography by capillary action. For a reactive result, a purple-colored line appears above the test line region. If the specimen is negative, no purple-colored line appears. An absence of this purple-colored line in the test line region signifies a non-reactive result. Regardless of the presence of HBsAg, a colorimetric IgG conjugated gold colloid, pre-coated on the test strip, will migrate upwards to modified mouse monoclonal anti-hepatitis B core (anti-HBc) on the control line region of the control line region if the result window appears. The presence of a purple-colored line in the control line region signifies a reactive result. The volume of specimen has been added and will that proper form has been obtained.

**[Intended use]** HBsAg WBs are an in situ immunochromatographic, rapid assay designed for the qualitative detection of Hepatitis B surface antigen in human serum, plasma (heparin, EDTA and sodium citrate) or urine and whole (heparin, EDTA and sodium citrate). BioLine™ HBsAg WB is intended only for professional use as an aid to diagnosis. Reactive specimens should be reflexed for additional testing either by Enzyme immunoassay (EIA) or by radioimmunoassay (RIA) in a laboratory setting. The specimen is prepared to be used in a laboratory with high HIV prevalence. This test may not be suitable for diagnosis of early infection or blood donation screening. Because false non-reactive results may also arise due to the presence of interfering substances, the performance of BioLine™ HBsAg WB in infants or children has not been validated.

**Materials provided and active ingredients of main components**

- The BioLine™ HBsAg WB contains the following items to perform the assay:
  - 1. HBsAg positive serum/plasma samples without genotyping information used to test in Sanquin.
  - 2. Active ingredients of main components:
    - Microcapsules: Mouse monoclonal anti-HBsAg conjugated gold colloid (0.054:0.101 µg), Chitinase IgG gold colloid (0.042:0.108 µg), Control IgG gold colloid (0.042:0.128 µg), Check line: Mouse monoclonal anti-hepatitis B core (anti-HBc) (0.482:0.096 µg)

**Materials required but not provided**

- Microcapsules, Protective gloves, Tissue, Biohazard container

**Kit storage and stability**

The kit should be stored at a temperature between 1°C and 40°C. Do not freeze the kit or its components.

The test device is sensitive to both humidity and humidity. Perform the test immediately after removing the test device from the package. Do not use the kit if the package is damaged or the kit is indicated on the test kit.

Do not use the test kit beyond its expiration date. The shelf life of the kit is as indicated on the test kit.

Do not use the test kit if the pouch is damaged or the kit is broken.

**Warnings**

- Test devices are for in vitro diagnostic use only. Do not reuse the test device.
- The instructions must be followed exactly to achieve accurate results. Any individual performing an assay with this product must be trained in its use and must be proficient.
- Reactive results may be false. If a reactive result is obtained, it is important that all components are being handled.
- Use gloves and protective gloves while handling specimens and wash hands thoroughly afterwards.
- Clean up spills thoroughly using an appropriate disinfectant.
- Decontaminate and dispose of all reaction, reagent kits and potentially contaminated materials in a biohazard container or other appropriate waste.
- Do not mix or interchange different specimens.
- Do not use the desiccant in the foil pouch.
- Avoid splashing or spraying reagents or aerosol formation.

**Specimen collection and handling**

- Using venipuncture, draw whole blood and insert it into the collection tube (containing anticoagulant including heparin, EDTA and sodium citrate).
- If the specimen is not immediately available, it must be refrigerated at 2 - 8 °C. If stored at 2 - 8 °C, the blood specimen must be tested within 3 days of refrigeration.
- Do not use a blood specimen stored for more than 3 days; otherwise a non-specific reaction may occur.

**Plasma or serum**

[Plasma] Using venipuncture, draw whole blood and insert it into the collection tube (containing anticoagulant including heparin, EDTA and sodium citrate) and centrifuge the blood to generate a plasma sample.

[Serum] Using venipuncture, draw whole blood and insert it into the collection tube (NOT containing anticoagulant) then leave for 30 minutes to allow blood to clot completely.

Centrifuge the tubes to generate the following plasma or serum samples:

- WHO laboratory reference panels
- WHO HBsAg laboratory reference panels
- WHO HBsAg laboratory reference panels
- WHO HBsAg laboratory reference panels

**Reference assay**

Reference assay	Number of specimens	Reactive	Indeterminate	Non-reactive
EIA	Positive	201	201	0
Negative	313	1	310	0
<b>Sensitivity (95% CI)</b>		100% (98.1 - 100%)		
<b>Specificity (95% CI)</b>		99.0% (97.2 - 99.8%)		

**Test procedure (Refer to figure)**

- Bring the test device to room temperature between 15 - 40 °C prior to testing.
- Remove the test device from the foil pouch, and place it in a flat, dry surface. Label the test device with a patient identifier.
- Using a microcapillary dispenser, 100µl of serum, plasma or whole blood specimen into the specimen well.
- As the test begins to run, you will see a purple color move across the result window in the center of the test device.
- Interpret test results at 20 minutes.

**Caution:** Do not read test results after 20 minutes; late readings can yield false results.

**Test interpretation (Refer to figure)**

A colored control line will appear at "C" in the result window to show that the test is working properly. The "T" reaction of the result window indicates the test result.

**Non-reactive:** The presence of only the control line (C) in the result window indicates a non-reactive result.

**Reactive:** A non-reactive result does not preclude the possibility of infection with HBV. Please refer to the test limitations section in the IFU. The control line (C) in the result window, regardless of which line appears first, indicates a reactive result.

**Invalid result:** If the control line (C) is not visible within the result window, the result is considered reactive. If the control line (C) is visible within the result window after performing the test, the result is considered invalid. Instructions may not have been followed correctly or the test kit may have deteriorated. It is recommended that the specimen be retested using a new test device.

**Test limitations**

- This product may have performance limitations for diagnosis in clinical specimens that are expected to be in this phase of infection or low concentration of HBsAg in origin. Although this assay has been demonstrated to be able to detect HBsAg genotype variations, false results may occur. These performance limitations can be a factor of false non-reactive results. A non-reactive result does not preclude the possibility of infection with HBV.
- 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 result of a single test, but should only be made by the physician. After clinical and laboratory findings have been evaluated.
- Due to the inherent design of qualitative IVD tests, a faint or absent test line (false non-reactive) may occur in specimens containing high concentrations of HBsAg or antigen. In order to obtain a definitive result, all clinical and laboratory findings should be evaluated in reference panel acceptance criteria.

**Internal quality control**

The BioLine™ HBsAg WB device has "Test Line" and "Control Line" on the surface of the device. The entire test line and control line in the result window are not visible before applying any specimens. The control line is used for procedural control. The control line of the RDT only shows that the active ingredients of the main components are in the test kit and are functional, but does not guarantee that the specimen has been properly applied; it is not a reactive component.

**Performance characteristics**

The BioLine™ HBsAg WB test kit is designed to have 100% (95% CI: 98.3 - 100%) of sensitivity

# FRANÇAIS

**À propos du test**  
 [Introduction] La maladie connue sous le nom d'hépatite B est provoquée par le virus de l'hépatite B (VHB), un agent infectieux. On estime que plus d'un milliard de personnes à travers le monde, y compris en France, ont été infectées par le virus. La transmission se fait principalement entre personnes à travers le contact avec du sang infecté. Fréquemment, de la mère à l'enfant durant le travail et le nourrisson à la naissance. Les rapports sexuels sont également un moyen de transmission possible, bien que moins efficace. Les tests de surface sont effectués à l'aide de la méthode ELISA de détection de l'antigène HBsAg. Les résultats sont obtenus en quelques minutes.

**Caractéristiques des performances**

Le kit de test BioLine™ HBsAg WB est conçu pour avoir une sensibilité de 100% (IC 95% : 98,3 - 100%) et une spécificité de 100% (IC 95% : 99,5 - 100%).

Le kit de test BioLine™ HBsAg WB est conçu pour avoir une sensibilité de 100% (IC 95% : 98,3 - 100%) et une spécificité de 100% (IC 95% : 99,5 - 100%).

**Principe de la preuve**

La membrane est pré-coated avec un mélange de anticorps monoclonaux de rat anti-HBsAg dans la région de la ligne de preuve, et avec anticorps monoclonaux de rat anti-HBc dans la région de la ligne de contrôle. Durant la preuve, la mixture réactionnelle (anti-HBsAg + HBsAg in specimen) then moves upward on the membrane chromatography by capillary action. For a reactive result, a purple-colored line appears above the test line region. If the specimen is negative, no purple-colored line appears. An absence of this purple-colored line in the test line region signifies a non-reactive result. Regardless of the presence of HBsAg, a colorimetric IgG conjugated gold colloid, pre-coated on the test strip, will migrate upwards to modified mouse monoclonal anti-hepatitis B core (anti-HBc) on the control line region of the control line region if the result window appears. The presence of a purple-colored line in the control line region signifies a reactive result. The volume of specimen has been added and will that proper form has been obtained.

**Matériel fourni et principes actifs des principaux composants**

Le kit de test BioLine™ HBsAg WB contient les éléments suivants pour effectuer le test :

- 30 dispositifs de test avec agent deshydratant emballés dans des pochettes individuelles.
- 1 Imprimé d'emploi
- Principes actifs des principaux composants :
  - Microcapsules: Mouse monoclonal anti-HBsAg conjugated gold colloid (0.054:0.101 µg), Chitinase IgG gold colloid (0.042:0.108 µg), Control IgG gold colloid (0.042:0.128 µg), Check line: Mouse monoclonal anti-hepatitis B core (anti-HBc) (0.482:0.096 µg)

**Matériel nécessaire mais non fourni**

- Microcapsules, gants protecteurs, temporisateur, conteneur pour déchets dangereux et biohazard

**Conservation et stabilité du kit**

Le kit de test doit être conservé à une température comprise entre 1 et 40 °C. Ne pas congeler le kit ni les composants.

Le kit de test doit être sensible à la chaleur et à l'humidité. Procéder au test immédiatement après avoir retiré le dispositif de son emballage en plastique.

Ne pas utiliser le kit de test - delà de la date de péremption. La date de péremption du kit est indiquée sur l'emballage.

Ne pas utiliser le kit de test si l'emballage individuel est endommagé et/ou s'il n'est pas scellé.

**Alertes**

- Les dispositifs de test ne doivent être utilisés qu'à des fins diagnostiques in vitro. Ne réutilisez le dispositif de test.
- Suivez les instructions adéquatement pour obtenir des résultats précis. La persona a cargo del assay este producto debe ser un especialista capacitado para usarlo.
- No pipetear con la boca. No fumar, beber ni comer en la zona donde se manipulan las muestras o los reactivos de este kit de prueba.
- Use gloves and protective gloves while handling specimens and wash hands thoroughly afterwards.
- Clean up spills thoroughly using an appropriate disinfectant.
- Decontaminate and dispose of all reaction, reagent kits and potentially contaminated materials in a biohazard container or other appropriate waste.
- Do not mix or interchange different specimens.
- Do not use the desiccant in the foil pouch.
- Avoid splashing or spraying reagents or aerosol formation.

**Prélevement et manipulation des échantillons**

- Prélever et remplir du sang total dans le tube de prélèvement (contenant des anticoagulants, notamment de l'héparine, de l'EDTA et du citrate de sodium) par ponction veineuse, puis centrifuger le tube pour obtenir un échantillon de plasma.
- WHO référence preparation (Plasma): Using venipuncture, draw whole blood and insert it into the collection tube (containing anticoagulant including heparin, EDTA and sodium citrate) and centrifuge the blood to generate a plasma sample.
- WHO reference preparation (Serum): Using venipuncture, draw whole blood and insert it into the collection tube (NOT containing anticoagulant) then leave for 30 minutes to allow blood to clot completely.
- Centrifuge the tubes to generate the following plasma or serum samples:

**Test procedure (Refer to figure)**

- Bring the test device to room temperature between 15 - 40 °C prior to testing.
- Remove the test device from the foil pouch, and place it in a flat, dry surface. Label the test device with a patient identifier.
- Using a microcapillary dispenser, 100µl of serum, plasma or whole blood specimen into the specimen well.
- As the test begins to run, you will see a purple color move across the result window in the center of the test device.
- Interpret test results at 20 minutes; late readings can yield false results.

**Test interpretation (Refer to figure)**

A colored control line will appear at "C" in the result window to show that the test is working properly. The "T" reaction of the result window indicates the test result.

**Non-reactive:** The presence of only the control line (C) in the result window indicates a non-reactive result.

**Reactive:** A non-reactive result does not preclude the possibility of infection with HBV. Please refer to the test limitations section in the IFU. The control line (C) in the result window, regardless of which line appears first, indicates a reactive result.

**Invalid result:** If the control line (C) is not visible within the result window, the result is considered reactive. If the control line (C) is visible within the result window after performing the test, the result is considered invalid. Instructions may not have been followed correctly or the test kit may have deteriorated. It is recommended that the specimen be retested using a new test device.

**Test limitations**

- This product may have performance limitations for diagnosis in clinical specimens that are expected to be in this phase of infection or low concentration of HBsAg in origin. Although this assay has been demonstrated to be able to detect HBsAg genotype variations, false results may occur. These performance limitations can be a factor of false non-reactive results. A non-reactive result does not preclude the possibility of infection with HBV.
- 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 result of a single test, but should only be made by the physician. After clinical and laboratory findings have been evaluated.
- Due to the inherent design of qualitative IVD tests, a faint or absent test line (false non-reactive) may occur in specimens containing high concentrations of HBsAg or antigen. In order to obtain a definitive result, all clinical and laboratory findings should be evaluated in reference panel acceptance criteria.

**Internal quality control**

The BioLine™ HBsAg WB device has "Test Line" and "Control Line" on the surface of the device. The entire test line and control line in the result window are not visible before applying any specimens. The control line is used for procedural control. The control line of the RDT only shows that the active ingredients of the main components are in the test kit and are functional, but does not guarantee that the specimen has been properly applied; it is not a reactive component.

**Performance characteristics**

The BioLine™ HBsAg WB test kit is designed to have 100% (95% CI: 98.3 - 100%) of sensitivity

# ESPAÑOL

**Acercas de la prueba**  
 [Introducción] La enfermedad que llamamos hepatitis B es causada por el virus infeccioso de la hepatitis B (HBV). Se calcula que el HBV ha infectado a 400 millones de personas en el mundo, cifra que sitúa a este virus entre los patógenos humanos más frecuentes. Se transmite principalmente entre personas a través del contacto con sangre infectada. Frecuentemente, de la madre a la bebé durante el parto. La transmisión sexual, si bien es eficaz, es una de las vías de transmisión posibles. Existen otros tipos de transmisión, pero son mucho menos eficientes. Los tests de superficie se realizan a través de la técnica ELISA de detección del antígeno HBsAg. Los resultados se obtienen en unos minutos.

**Características del rendimiento**

El kit de prueba BioLine™ HBsAg WB está diseñado para tener un 100% (IC 95%: 98,3 - 100%) de sensibilidad y un 100% (IC 95%: 99,5 - 100%) de especificidad.

Se usó la prueba BioLine™ HBsAg WB para evaluar un total de 1035 muestras obtenidas en Corea. Las muestras incluyeron 203 muestras de suero positivas, 20 muestras de sangre positivas y 792 muestras de suero clínico negativo confirmadas por un test de referencia ELISA de control de calidad.

**Principio de la prueba**

La membrana está previamente recubierta con mezcla de anticuerpos monoclonales de rat anti-HBsAg en la región de la línea de prueba, y con anticuerpos monoclonales de rat anti-HBc en la región de la línea de control. Durante la prueba, la mixture reacciónnelle (anti-HBsAg + HBsAg in specimen) then moves upward on the membrane chromatography by capillary action. For a reactive result, a purple-colored line appears above the test line region. If the specimen is negative, no purple-colored line appears. An absence of this purple-colored line in the test line region signifies a non-reactive result. Regardless of the presence of HBsAg, a colorimetric IgG conjugated gold colloid, pre-coated on the test strip, will migrate upwards to modified mouse monoclonal anti-hepatitis B core (anti-HBc) on the control line region of the control line region if the result window appears. The presence of a purple-colored line in the control line region signifies a reactive result. The volume of specimen has been added and will that proper form has been obtained.

**Matériel fourni et principes actifs des principaux composants**

Le kit de test BioLine™ HBsAg WB contient les éléments suivants pour effectuer le test :

- 30 dispositifs de test avec agent deshydratant emballés dans des pochettes individuelles.
- 1 Imprimé d'emploi
- Principes actifs des principaux composants :
  - Microcapsules: Mouse monoclonal anti-HBsAg conjugated gold colloid (0.054:0.101 µg), Chitinase IgG gold colloid (0.042:0.108 µg), Control IgG gold colloid (0.042:0.128 µg), Check line: Mouse monoclonal anti-hepatitis B core (anti-HBc) (0.482:0.096 µg)

**Matériel nécessaire mais non fourni**

- Microcapsules, gants protecteurs, temporisateur, conteneur pour déchets dangereux et biohazard

**Conservation et stabilité du kit**

Le kit de test doit être conservé à une température comprise entre 1 et 40 °C. Ne pas congeler le kit ni les composants.

Le kit de test doit être sensible à la chaleur et à l'humidité. Procéder au test immédiatement après avoir retiré le dispositif de son emballage en plastique.

Ne pas utiliser le kit de test - delà de la date de péremption. La date de péremption du kit est indiquée sur l'emballage.

Ne pas utiliser le kit de test si l'emballage individuel est endommagé et/ou s'il n'est pas scellé.

**Alertes**

- Les dispositifs de test ne doivent être utilisés qu'à des fins diagnostiques in vitro. Ne réutilisez le dispositif de test.
- Suivez les instructions adéquatement pour obtenir des résultats précis. La persona a cargo del assay este producto debe ser un especialista capacitado para usarlo.
- No pipetear con la boca. No fumar, beber ni comer en la zona donde se manipulan las muestras o los reactivos de este kit de prueba.
- Use gloves and protective gloves while handling specimens and wash hands thoroughly afterwards.
- Clean up spills thoroughly using an appropriate disinfectant.
- Decontaminate and dispose of all reaction, reagent kits and potentially contaminated materials in a biohazard container or other appropriate waste.
- Do not mix or interchange different specimens.
- Do not use the desiccant in the foil pouch.
- Avoid splashing or spraying reagents or aerosol formation.

**Prélevement et manipulation des échantillons**

- Prélever et remplir du sang total dans le tube de prélèvement (contenant des anticoagulants, notamment de l'héparine, de l'EDTA et du citrate de sodium) par ponction veineuse, puis centrifuger le tube pour obtenir un échantillon de plasma.
- WHO référence preparation (Plasma): Using venipuncture, draw whole blood and insert it into the collection tube (containing anticoagulant including heparin, EDTA and sodium citrate) and centrifuge the blood to generate a plasma sample.
- WHO reference preparation (Serum): Using venipuncture, draw whole blood and insert it into the collection tube (NOT containing anticoagulant) then leave for 30 minutes to allow blood to clot completely.
- Centrifuge the tubes to generate the following plasma or serum samples:

**Test procedure (Refer to figure)**

- Bring the test device to room temperature between 15 - 40 °C prior to testing.
- Remove the test device from the foil pouch, and place it in a flat, dry surface. Label the test device with a patient identifier.
- Using a microcapillary dispenser, 100µl of serum, plasma or whole blood specimen into the specimen well.
- As the test begins to run, you will see a purple color move across the result window in the center of the test device.
- Interpret test results at 20 minutes; late readings can yield false results.

**Test interpretation (Refer to figure)**

A colored control line will appear at "C" in the result window to show that the test is working properly. The "T" reaction of the result window indicates the test result.

**Non-reactive:** The presence of only the control line (C) in the result window indicates a non-reactive result.

**Reactive:** A non-reactive result does not preclude the possibility of infection with HBV. Please refer to the test limitations section in the IFU. The control line (C) in the result window, regardless of which line appears first, indicates a reactive result.

**Invalid result:** If the control line (C) is not visible within the result window, the result is considered reactive. If the control line (C) is visible within the result window after performing the test, the result is considered invalid. Instructions may not have been followed correctly or the test kit may have deteriorated. It is recommended that the specimen be retested using a new test device.

**Test limitations**

- This product may have performance limitations for diagnosis in clinical specimens that are expected to be in this phase of infection or low concentration of HBsAg in origin. Although this assay has been demonstrated to be able to detect HBsAg genotype variations, false results may occur. These performance limitations can be a factor of false non-reactive results. A non-reactive result does not preclude the possibility of infection with HBV.
- 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 result of a single test, but should only be made by the physician. After clinical and laboratory findings have been evaluated.
- Due to the inherent design of qualitative IVD tests, a faint or absent test line (false non-reactive) may occur in specimens containing high concentrations of HBsAg or antigen. In order to obtain a definitive result, all clinical and laboratory findings should be evaluated in reference panel acceptance criteria.

**Internal quality control**

The BioLine™ HBsAg WB device has "Test Line" and "Control Line" on the surface of the device. The entire test line and control line in the result window are not visible before applying any specimens. The control line is used for procedural control. The control line of the RDT only shows that the active ingredients of the main components are in the test kit and are functional, but does not guarantee that the specimen has been properly applied; it is not a reactive component.

**Performance characteristics**

The BioLine™ HBsAg WB test kit is designed to have 100% (95% CI: 98.3 - 100%) of sensitivity

# PORTUGUES

**Acercas de la prueba**  
 [Introdução] A doença denominada hepatite B é causada pelo vírus da Hepatite B infeccioso (VHB). Estima-se que patógeno VHB tenha infectado 400 milhões de pessoas em todo o mundo, tornando o VHB um dos agentes patogênicos humanos mais comuns. É principalmente transmitido entre pessoas através do contato com sangue infectado. Freqüentemente, de mãe para a criança durante o parto. A transmissão sexual, apesar de eficaz, é também um das vias de transmissão possíveis. Existem outros tipos de transmissão, porém são muito menos eficientes. Os testes de superfície são realizados através da técnica ELISA de detecção do antígeno HBsAg. Os resultados são obtidos em poucos minutos.

**Características do desempenho**

O kit de teste BioLine™ HBsAg WB foi concebido para uma sensibilidade de 100% (IC de 95%: 98,3 - 100%) e uma especificidade de 100% (IC de 95%: 99,5 - 100%).

Na teste da BioLine™ HBsAg WB para avaliar um total de 1035 amostras obtidas em Coreia. As amostras incluíam 203 amostras de soro positivo, 20 amostras de sangue positivo e 792 amostras de soro clínico negativo confirmadas por um teste de referência ELISA de controle de qualidade.

**Princípio de teste**

A membrana é pré-revestida com pool de anti-HBsAg monoclonal de rato na região da linha de teste e IgG monoclonal de rato anti-HBc na região da linha de controle. Durante o teste, a amostra de reação (anti-HBsAg + HBsAg in specimen) then moves upward on the membrane chromatography by capillary action. For a reactive result, a purple-colored line appears above the test line region. If the specimen is negative, no purple-colored line appears. An absence of this purple-colored line in the test line region signifies a non-reactive result. Regardless of the presence of HBsAg, a colorimetric IgG conjugated gold colloid, pre-coated on the test strip, will migrate upwards to modified mouse monoclonal anti-hepatitis B core (anti-HBc) on the control line region of the control line region if the result window appears. The presence of a purple-colored line in the control line region signifies a reactive result. The volume of specimen has been added and will that proper form has been obtained.

**Matériel fourni et principes actifs des principaux composants**

Le kit de test BioLine™ HBsAg WB contient les éléments suivants pour effectuer le test :

- 30 dispositifs de test avec agent deshydratant emballés dans des pochettes individuelles.
- 1 Imprimé d'emploi
- Principes actifs des principaux composants :
  - Microcapsules: Mouse monoclonal anti-HBsAg conjugated gold colloid (0.054:0.101 µg), Chitinase IgG gold colloid (0.042:0.108 µg), Control IgG gold colloid (0.042:0.128 µg), Check line: Mouse monoclonal anti-hepatitis B core (anti-HBc) (0.482:0.096 µg)

**Matériel nécessaire mais non fourni**

- Microcapsules, gants protecteurs, temporisateur, conteneur pour déchets dangereux et biohazard

**Conservation et stabilité du kit**

Le kit de test doit être conservé à une température comprise entre 1 et 40 °C. Ne pas congeler le kit ni les composants.

Le kit de test doit être sensible à la chaleur et à l'humidité. Procéder au test immédiatement après avoir retiré le dispositif de son emballage en plastique.

Ne pas utiliser le kit de teste - delà de la date de validité. La date de validité du kit est indiquée sur l'emballage.

Ne pas utiliser le kit de teste si l'emballage individuel est endommagé et/ou s'il n'est pas scellé.

**Alertes**

- Les dispositifs de teste ne doivent être utilisés qu'à des fins diagnostiques in vitro. Ne réutilisez le dispositif de teste.
- Suivez les instructions adéquatement pour obtenir des résultats précis. Qualquer indivíduo que esteja a cargo deste produto deve ser um especialista capacitado para usá-lo.
- Não pipetear com a boca, fumar, beber ou comer na área onde se manipulam as amostras ou os reagentes deste kit de teste.
- Use luvas e protetores para as mãos enquanto estiver lidando com as amostras e lave as mãos imediatamente após.
- Clean up spills thoroughly using an appropriate disinfectant.
- Decontaminate and dispose of all reaction, reagent kits and potentially contaminated materials in a biohazard container or other appropriate waste.
- Do not mix or interchange different specimens.
- Do not use the desiccant in the foil pouch.
- Avoid splashing or spraying reagents or aerosol formation.

**Prélevement et manipulation des échantillons**

- Prélever et remplir du sang total dans le tube de prélèvement (contenant des anticoagulants, notamment de l'héparine, de l'EDTA et du citrate de sodium) par ponction veineuse, puis centrifuger le tube pour obtenir un échantillon de plasma.
- WHO référence preparation (Plasma): Using venipuncture, draw whole blood and insert it into the collection tube (containing anticoagulant including heparin, EDTA and sodium citrate) and centrifuge the blood to generate a plasma sample.
- WHO reference preparation (Serum): Using venipuncture, draw whole blood and insert it into the collection tube (NOT containing anticoagulant) then leave for 30 minutes to allow blood to clot completely.
- Centrifuge the tubes to generate the following plasma or serum samples:

**Test procedure (Refer to figure)**

- Bring the test device to room temperature between 15 - 40 °C prior to testing.
- Remove the test device from the foil pouch, and place it in a flat, dry surface. Label the test device with a patient identifier.
- Using a microcapillary dispenser, 100µl of serum, plasma or whole blood specimen into the specimen well.
- As the test begins to run, you will see a purple color move across the result window in the center of the test device.
- Interpret test results at 20 minutes; late readings can yield false results.

**Test interpretation (Refer to figure)**

A colored control line will appear at "C" in the result window to show that the test is working properly. The "T" reaction of the result window indicates the test result.

**Non-reactive:** The presence of only the control line (C) in the result window indicates a non-reactive result.

**Reactive:** A non-reactive result does not preclude the possibility of infection with HBV. Please refer to the test limitations section in the IFU. The control line (C) in the result window, regardless of which line appears first, indicates a reactive result.

**Invalid result:** If the control line (C) is not visible within the result window, the result is considered reactive. If the control line (C) is visible within the result window after performing the test, the result is considered invalid. Instructions may not have been followed correctly or the test kit may have deteriorated. It is recommended that the specimen be retested using a new test device.

**Test limitations**

- This product may have performance limitations for diagnosis in clinical specimens that are expected to be in this phase of infection or low concentration of HBsAg in origin. Although this assay has been demonstrated to be able to detect HBsAg genotype variations, false results may occur. These performance limitations can be a factor of false non-reactive results. A non-reactive result does not preclude the possibility of infection with HBV.
- 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 result of a single test, but should only be made by the physician. After clinical and laboratory findings have been evaluated.
- Due to the inherent design of qualitative IVD tests, a faint or absent test line (false non-reactive) may occur in specimens containing high concentrations of HBsAg or antigen. In order to obtain a definitive result, all clinical and laboratory findings should be evaluated in reference panel acceptance criteria.

**Internal quality control**

The BioLine™ HBsAg WB device has "Test Line" and "Control Line" on the surface of the device. The entire test line and control line in the result window are not visible before applying any specimens. The control line is used for procedural control. The control line of the RDT only shows that the active ingredients of the main components are in the test kit and are functional, but does not guarantee that the specimen has been properly applied; it is not a reactive component.

**Performance characteristics**

The BioLine™ HBsAg WB test kit is designed to have 100% (95% CI: 98.3 - 100%) of sensitivity

# Bioline<sup>™</sup> HBsAg WB

**HBsAg Rapid Test**  
 Test rapide de détection de l'antigène HBsAg EN UNE ÉTAPE  
 Prueba rápida de HBsAg en un paso  
 Teste rápido HBsAg num único passo

## PREPARATION / PRÉPARATION / PREPARACIÓN / PREPARAÇÃO

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

- 2** **EN** Carefully read the instructions for using the Bioline<sup>™</sup> HBsAg WB test.
- FR** Lire attentivement le mode d'emploi du test Bioline<sup>™</sup> HBsAg WB.

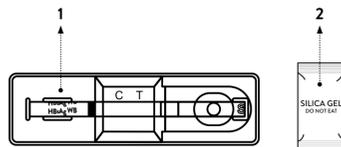
- ES** Lea con atención las instrucciones de uso de la prueba Bioline<sup>™</sup> HBsAg WB.
- PT** Leia cuidadosamente as instruções para utilizar o teste Bioline<sup>™</sup> HBsAg WB.

- 3** **EN** Look at the expiration date on the back of the foil pouch. If the expiration date has passed, use another kit.
- FR** Vérifier la date de péremption à l'arrière de l'emballage en aluminium. Si elle est dépassée, utiliser un autre kit.

- ES** Lea la fecha de vencimiento indicada en la parte posterior de la bolsa. Si la fecha ya ha pasado, use otro kit.
- PT** 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.

- 4** **EN** Open the foil pouch and look for the following:
1. Test device
  2. Desiccant
- Then, label the device with the patient identifier.
- FR** 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.

- ES** 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.
- PT** 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.



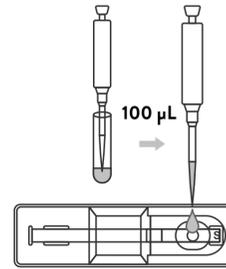
## Specimen collection / Prélèvement de l'échantillon / Obtención de la muestra / Colheita de amostras

- 1** **EN** Take 100 µl of serum, plasma or whole blood specimen using a micropipette. Dispense 100 µl of serum, plasma or whole blood specimen into the specimen well "S".

- FR** Prélever 100 µl d'échantillon de sérum, de plasma ou de sang total à l'aide d'une micropipette. Déposer 100 µl d'échantillon de sérum, de plasma ou de sang total dans le puits d'échantillon « S ».

- ES** Con una micropipeta, tome 100 µl de la muestra de suero, plasma o sangre. Instile 100 µl de la muestra de suero, plasma o sangre en el espacio para muestras "S".

- PT** Tire 100 µL de amostra de soro, plasma ou de sangue total com uma micropipeta. Deite 100 µL de amostra de soro, plasma ou sangue total no poço da amostra "S".



- 2** **EN** Interpret test results at 20 minutes. Do not read test results after 20 minutes; late readings can yield false results.

- FR** Interpréter les résultats du test au bout de 20 minutes. Ne pas lire les résultats du test au-delà de 20 minutes, car il est alors possible qu'ils soient erronés.

- ES** Una vez transcurridos 20 minutos, interprete los resultados. No lea los resultados después de 20 minutos; una lectura tardía puede arrojar resultados falsos.

- PT** Interprete os resultados do teste após 20 minutos. Não leia os resultados do teste após 20 minutos; as leituras tardias podem gerar resultados falsos.



## INTERPRETATION / INTERPRÉTATION / INTERPRETACIÓN / INTERPRETAÇÃO

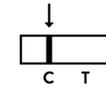
### NON-REACTIVE / NON RÉACTIF / NO REACTIVO / NÃO REATIVO

- EN** The presence of only the control line (C) within the result window indicates a non-reactive result.

- FR** La présence de la ligne de contrôle uniquement (C) dans la fenêtre de résultat indique un résultat non réactif.

- ES** Si solo aparece la línea de control (C) en la ventana de resultados, el resultado es no reactivo.

- PT** A presença apenas da linha de controlo (C) dentro da janela de resultados indica um resultado não reativo.



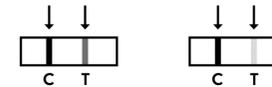
### REACTIVE / RÉACTIF / REACTIVO / REATIVO

- EN** 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. **⚠ Caution:** The presence of any test line, no matter how faint, the result is considered reactive.

- FR** La présence de la ligne de test (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. **⚠ Attention :** si la ligne de test est présente, même très pâle, le résultat est considéré comme réactif.

- ES** 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. **⚠ Precaución:** La presencia de cualquier línea de prueba, aunque sea de un color débil, indica que el resultado es reactivo.

- PT** A presença da linha de teste (T) e da linha de controlo (C) dentro da janela de resultados, independentemente da linha que aparecer primeiro, indica um resultado reativo. **⚠ Atenção:** a presença de qualquer linha de teste, mesmo sendo muito tênue, significa que o resultado é considerado reativo.



### INVALID / NON VALIDE / NO VÁLIDO / INVÁLIDA

- 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 kit may have deteriorated. 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 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 kit de test se soit détérioré. Il est recommandé d'analyser à nouveau l'échantillon à l'aide d'un nouveau dispositif de test.

- ES** 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 el kit de prueba se haya deteriorado. Se recomienda volver a analizar la muestra con un dispositivo de prueba nuevo.

- PT** Se a linha de controlo (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 kit de 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

<b>1°C / 34°F</b> → <b>40°C / 104°F</b>	Store at 1 - 40 °C (34 °F - 104 °F) Conserver entre 1 et 40 °C (34 et 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	Manufacturer Fabricant Fabricante Fabricante
<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 Referencia Número de Catálogo	Date of manufacture Date de fabrication Fecha de fabricación Data de fabricacao
	Do not reuse Usage unique No Reutilizar Não reutilizar	Instructions for use Attention, voir mode d'emploi Atención, ver Instrucciones de uso Atenção, ver Instruções de uso	Caution Mise en garde Precaución Atenção
	Use By Date de péremption Fecha de caducidad Utilizar até	Keep away from sunlight Conserver à l'abri de la lumière du soleil Manténgase fuera de la luz del sol Manter afastado da luz solar	
	Contains sufficient for <no> tests Permet de réaliser <no> tests Contenido suficiente para <no> pruebas Contém o suficiente para <no> testes	Keep dry Conserver au sec Manténgase seco Conservar seco	
	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 a embalagem estiver danificada	Biological Risks Risques biologiques Riesgos biológicos Riscos biológicos	