



H. Pylori Ab Rapid Test Kit (Colloidal Gold)

Instruction for Use

Read this instruction carefully before use

A rapid test for the qualitative detection of H. Pylori Antibody in human serum, plasma, whole blood. For professional medical institutions use only, Not for self testing.

PRODUCT NAME

H. Pylori Ab Rapid Test Kit (Colloidal Gold)

SPECIFICATION

25 tests/kit, 5 tests/kit, 1 test/kit

INTENDED USE

The H. Pylori Ab Rapid Test is a sandwich lateral flow chromatographic immunoassay for the qualitative detection of antibodies (IgG, IgM, and IgA) anti- Helicobacter pylori (H. Pylori) in human serum, plasma, whole blood. It is intended to be used as a screening test and as an aid in the diagnosis of infection with H. Pylori. Any reactive specimen with the H. Pylori Ab Rapid Test Kit must be confirmed with alternative testing method(s) and clinical findings.

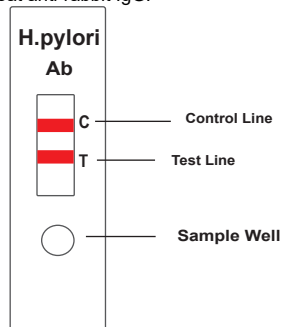
SUMMARY AND EXPLANATION THE TEST

Helicobacter pylori is associated with a variety of gastrointestinal diseases included non-ulcer dyspepsia, duodenal and gastric ulcer and active, chronic gastritis. The prevalence of H. pylori infection could exceed 90% in patients with signs and symptoms of gastrointestinal diseases. Recent studies indicate an association of H. Pylori infection with stomach cancer. H. Pylori colonizing in the gastrointestinal system elicits specific antibody responses which aids in the diagnosis of H. Pylori infection and in monitoring the prognosis of the treatment of H. Pylori related diseases. Antibiotics in combination with bismuth compounds have been shown to be effective in treating active H. Pylori infection. Successful eradication of H. pylori is associated with clinical improvement in patients with gastrointestinal diseases providing a further evidence.

The H. Pylori Combo Ab Rapid Test is a latest generation of chromatographic immunoassay which utilizes recombinant antigens to detect the antibodies to H. Pylori in human serum or plasma. The test is user friendly, highly sensitive and specific.

PRINCIPLE

The H. Pylori Ab Rapid Test is a lateral flow chromatographic immunoassay based on the principle of the double antigen-sandwich technique. The test cassette consists of: 1) a burgundy colored conjugate pad containing H. Pylori antigens including Cag-A conjugated with colloid gold (H. Pylori conjugates) and rabbit IgG-gold conjugates, 2) a nitrocellulose membrane strip containing a test band (T band) and a control band (C band). The T band is pre-coated with non-conjugated H. Pylori antigens, and the C band is pre-coated with goat anti-rabbit IgG.



When an adequate volume of test specimen is dispensed into the sample well of the cassette, the specimen migrates by capillary action across the cassette. The antibodies: either the IgG, the IgM, or the IgA, to H. Pylori if present in the specimen will bind to the H. Pylori conjugates. The immunocomplex is then captured on the membrane by the pre-coated H. Pylori antigens, forming a burgundy colored T band, indicating a H. Pylori Ab positive test result.

Absence of the T band suggests a negative result. The test contains an internal control

(C band) which should exhibit a burgundy colored band of the immunocomplex of goat anti-rabbit IgG/rabbit IgG-gold conjugate regardless the presence of any antibodies to H. Pylori. Otherwise, the test result is invalid and the specimen must be retested with another device.

REAGENTS AND MATERIALS PROVIDED

Components	25 tests/kit	5 tests/kit	1 test/kit
Cassettes	25 cassettes with dependent sealed foil pouch	5 cassettes with dependent sealed foil pouch	1 cassettes with dependent sealed foil pouch
Sample Diluent Solution with Dropper	5ml/bottle	1ml/bottle	300ul/tube
Transfer tube	25 pcs	5 pcs	1 pcs
Package insert	1	1	1

MATERIALS REQUIRED BUT NOT PROVIDED

Clock or Timer

WARNINGS AND PRECAUTIONS

For in Vitro Diagnostic Use

- This package insert must be read completely before performing the test. Failure to follow the insert gives inaccurate test results.
- Do not open the sealed pouch, unless ready to conduct the assay.
- Do not use expired devices.
- Bring all reagents to room temperature (15°C-30°C) before use.
- Do not use the components in any other type of test kit as a substitute for the components in this kit.
- Do not use hemolyzed blood specimen for testing.
- Wear protective clothing and disposable gloves while handling the kit reagents and clinical specimens. Wash hands thoroughly after performing the test.
- Users of this test should follow the US CDC Universal Precautions for prevention of transmission of HIV, HBV and other blood-borne pathogens.
- Do not smoke, drink, or eat in areas where specimens or kit reagents are being handled.
- Dispose of all specimens and materials used to perform the test as biohazardous waste.
- Handle the Negative and Positive Control in the same manner as patient specimens.
- The testing results should be read within 25 minutes after a specimen is applied to the sample well or sample pad of the device. Read result after 25 minutes may give erroneous results.
- Do not perform the test in a room with strong air flow, ie. electric fan or strong air-conditioning.

REAGENT PREPARATION AND STORAGE INSTRUCTIONS

All reagents are ready to use as supplied. Store unused test device unopened at 2°C-30°C. The positive and negative controls should be kept at 2°C-8°C. If stored at 2°C-8°C, ensure that the test device is brought to room temperature before opening. The test device is stable through the expiration date printed on the sealed pouch. Do not freeze the kit or expose the kit over 30°C.

SPECIMEN COLLECTION AND HANDLING

Consider any materials of human origin as infectious and handle them using standard biosafety procedures.

Plasma

- Collect blood specimen into a lavender, blue or green top collection tube (containing EDTA, citrate or heparin, respectively in Vacutainer®) by veinpuncture.
- Separate the plasma by centrifugation.
- Carefully withdraw the plasma into new pre-labeled tube.

Serum

- Collect blood specimen into a red top collection tube (containing no anticoagulants in Vacutainer®) by veinpuncture.
- Allow the blood to clot.
- Separate the serum by centrifugation.
- Carefully withdraw the serum into a new pre-labeled tube.
- Test specimens as soon as possible after collecting. Store specimens at 2°C to 8°C

if not tested immediately.

6. Store specimens at 2°C to 8°C up to 5 days. The specimens should be frozen at -20°C for longer storage

Blood

Drops of whole blood can be obtained by either finger tip puncture or veinpuncture. Do not use any hemolyzed blood for testing.

Whole blood specimens should be stored in refrigeration (2°C-8°C) if not tested immediately. The specimens must be tested within 24 hours of collection. Avoid multiple freeze-thaw cycles. Prior to testing, bring frozen specimens to room temperature slowly and mix gently. Specimens containing visible particulate matter should be clarified by centrifugation before testing.

ASSAY PROCEDURE

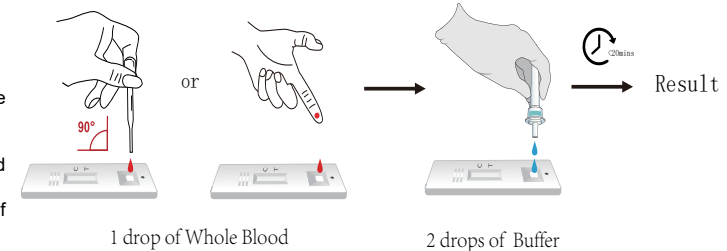
Step 1: Bring the specimen and test components to room temperature if refrigerated or frozen. Once thawed, mix the specimen well prior to assay.

Step 2: When ready to test, open the pouch at the notch and remove device. Place the test device on a clean, flat surface.

Step 3: Be sure to label the device with specimen's ID number.

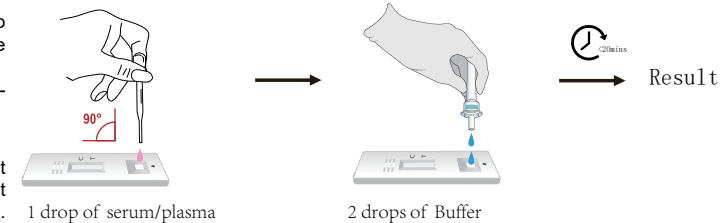
Step 4: For whole blood test

- Apply 1 drop of whole blood (about 30-35 µL) into the sample well.
- Then add 2 dropS (about 60-70 µL) of Sample Diluent immediately.



For serum or plasma test

- Fill the pipette dropper with the specimen.
- Holding the dropper vertically, dispense 1 drop (about 30-35 µL) of specimen into the sample well making sure that there are no air bubbles.
- Then add 2 dropS (about 60-70 µL) of Sample Diluent immediately.



Step 5: Set up timer.

Step 6: Results can be read in 20 minutes. Positive results can be visible in as short as 1 minute.

Don't read results after 30 minutes. To avoid confusion, discard the test device after interpreting the result.

QUALITY CONTROL

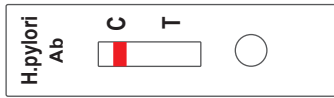
Using individual H. Pylori Ab Rapid Test cassettes as described in the Assay Procedure above, run 1 Positive Control and 1 Negative Control (provided upon request) under the following circumstances to monitor test performance:

- A new operator uses the kit, prior to performing testing of specimens.
- A new test kit is used.
- A new shipment of kits is used.
- The temperature used during storage of the kit falls outside of 2°C-30°C.
- The temperature of the test area falls outside of 15°C-30°C.

Expected results are as follows:

Negative Control

Only the C band shows color development. The T band shows no color development.


Positive Control

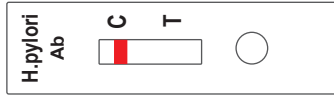
Both C and T bands show color development.



The appearance of any burgundy color in the test bands, regardless of intensity, must be considered as presence of the band.

INTERPRETATION OF ASSAY RESULT
Negative Control

If only the C band is developed, the test indicates that the level of YH. Pylori Ab in the specimen is undetectable. The result is negative or non-reactive.


Positive Control

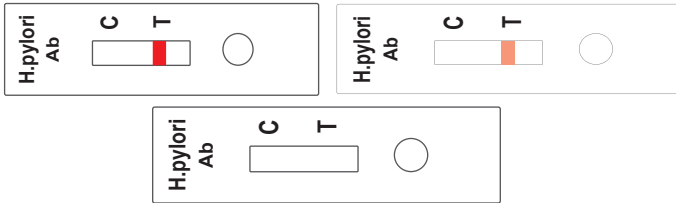
IgG Positive: If both C and T bands are developed, the test indicates for the presence of antibodies to H. Pylori in the specimen. The result is positive.



Samples with positive or reactive results should be confirmed with alternative testing method(s) such as ELISA or PCR and clinical findings before a diagnostic decision is made.

INVALID:

If no C band is developed, the assay is invalid regardless of any burgundy color in the test bands as indicated below. Repeat the assay with a new device.


PERFORMANCE CHARACTERISTICS
Clinical Performance

A total of 200 specimens from the non- H. Pylori patients and 75 specimens from the patients under anti-H. Pylori treatment were tested by the H. Pylori Ab Rapid Test. Comparison for all subjects is showed in the following table.

H. Pylori Patients	H. Pylori Ab Rapid Test Kit		Total
	Positive	Negative	
Positive	65	10	75
Negative	18	182	200
Total	83	180	275

Relative Sensitivity:98.15% , Relative Specificity:100%, Overall Agreement: 99.6%

LIMITATIONS OF TEST

1.The Assay Procedure and the Assay Result Interpretation must be followed closely when testing the presence of antibodies to H. Pylori in serum, plasma or whole blood

from individual subjects. Failure to follow the procedure may give inaccurate results.

2.The H. Pylori Ab Rapid Test is limited to the qualitative detection of IgG, IgM, and IgA anti- H. Pylori in human serum, plasma or whole blood. The intensity of the test band does not have linear correlation with the antibody titer in the specimen.

3.A negative result for an individual subject indicates absence of detectable antibodies to H. Pylori. However, a negative test result does not preclude the possibility of exposure to or infection with H. Pylori.

4.A negative result can occur if the quantity of the antibodies to H. Pylori present in the specimen is below the detection limits of the assay, or the antibodies that are detected are not present during the stage of disease in which a sample is collected.

5.Some specimens containing unusually high titer of heterophile antibodies or rheumatoid factor may affect expected results.

6.The results obtained with this test should only be interpreted in conjunction with other diagnostic procedures and clinical findings.

SYMBOLS

Symbol	Used For	Symbol	Used For
	Use-by date		Consult instructions for use
	Batch code		In vitro diagnostic medical device
	Temperature limit		Manufacturer
	Please don't reuse it		Keep away from sunlight
	Don't use the product when the package is damaged		Keep dry
	Date of manufacture		Tests per kit
	CE Mark		Biological Risks
	Authorized representative in the European Community		

BASIC INFORMATION


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