

INSTRUCTION FOR USE H.Pylori Ag Test

For *Helicobacter pylori* Antigen Detection in Feces

in vitro diagnostic test

roduct Code: THP03 pylori Ag Test detects h

BACKGROUND INFORMATION

ri is small, spiral-shaped bacterium that li including duodenal and gastric ulcer, non-ulcer dyspepsia and active and chronic gastritis. Both invasive and non-invasive methods are used to diagnose H. pylori infection in patients with spiriture and upsin times, not runce upspepsie and active and union, spiriture and non-invasive intentions are used to display to a propriet in the patients with spiriture and non-invasive intentions are used to display to propriet intention in patients with spiriture and or histologic staining. H. pylori chronically infects the stomach of more than half of the human population and represents the major cause of gastroduodenal pathologies. However, only 10 - 20 % of *H. pylori* infected patients develop severe diseases, such as peptic ulcer, gastric cancer, and lymphoma, during their lifetime. This fact suggests that the type of innate and acquired immune response to *H. pylori* may represent an important factor able to influence the outcome of the infection towards protection, evasion, or pathology. Differences may occur in the mode of transmission of H. pylori between developed and developing countries: direct human-to-human contacts have been suggested as the primary route in the former while the fecaloral route, also, through contaminated water, in the latter. A very common approach to the diagnosis of H. pylori infection is the serological identification of specific antibodies in infected patients. The main limitation of serological test is inability to distinguish current and past infections. Antibody may be present in the patient's serum long after eradication of the organisms. HpSA (H. pylori Sto Antigen) testing is gaining popularity for diagnosis of H. pylori infection and also for monitoring the efficiency of the treatment of H. pylori infection.

INTENDED USE

H.pylori Ag Test is a rapid immunochromatographic assay for qualitative detection of H. pylori antigens in human feces samples to aid in the diagnosis of H. pyl infection.

REAGENTS

Anti-H. pylori antibodies coated particles and anti-H. pylori antibodies immobilized on the membrane

H. pylori Ag Test is a qualitative. immur ochromatographic assay for detection of *H. pylori* antigens in human feces samples. "T" test area of this test is pre-coated with antior antibodies. While performing the test; sample dropped to the sample well reacts with the particles coated with anti-H. pylori antibodies. This complex migrates to H. pylo the other end of the membrane by capillary action. If there are *H. pylori* antigens at detectable level in the sample, they bind to anti-*H. pylori* antibodies in the "I" test area and creates a visible, colored signal that means the test result is positive. If the sample does not contain *H. pylori* antigens at detectable level, colored line does not appear in the "I" test area. This means the test result is negative. As a procedural control, colored line always appears in the "C" control area indicating that proper volume of nple has been introduced and membrane wicking has occurred.

PRECAUTIONS AND LIMITATIONS

- 1. For professional and in vitro diagnostic use only
- ot use test kit beyond expiry date. The test device is single use. Do 3. The test device should remain in its original sealed pouch until usage. Do not use the test if the seal is broken or the pouch is damaged.
- 4. Wear disposable gloves while performing the test.
- 5. Use a new pipette for each sample.
- 6. All patients amples should be handled as taking capable of transmitting disease into consideration. Observe established precautions against microbiological hazards throughout all procedures and follow the standard procedures for proper disposal of samples.
- 7. Following certain antibiotic treatments, the concentration of H. pylori antigens may decrease to the concentration below the minimum detection level of the test. Therefore diagnosis should be made with caution during antibiotic treatment.
- 8. This test will indicate only the selectively total H. pylori antigens in the sample, and should not be used as the only basis for the diagnosis of H. pylori infection
- As with all diagnostic tests, it should be kept in mind that an identification diagnosis can't be based on a single test result. Diagnosis can only be reached by an expert after the evaluation of all clinical and laboratory findings. 9. If the test result is negative and clinical symptoms persist, additional testing using other clinical methods is recommended. A negative result does not at any time
- preclude the possibility of H. pylori infection.

Test device should be kept away from direct sunlight, moisture, heat and radiation sources. Store at 4 - 30°C (39 - 86°F). Do not freeze. The test in the original packaging retains stable until expiry date at storage conditions. The test device should be used in maximum one hour after the foil is open

Kit components: Test cassettes, pipette, sample collection tubes with dilution buffer and instructions for use.

Additional materials required but not provided: Sample collection containers, centrifuge and timer.

Additional materials recommended but not provided: Micropipettes to deliver mentioned amount of sample in the test procedure, negative and positive control TEST PROCEDURE

ST PROCEDURE
give tests, distinction buffer and samples to room temperature. Take the test out of its pouch.
eces samples:
es samples:
es sample must be collected in clean, dry, waterproof container containing no detergents, preservatives and transport media. Take 1 - 2 ml or 1 - 2 g feces sample to
container to collect sufficient quantity of antipen (if present). Best results will be obtained if the assay is performed with the fresh sample immediately after collection.
lected samples may be stored at 2.00°C for long term storage.

o process facal samples:
for solid samples: Unscrew the cap of the sample collection tube. Stab the sample collection applicator randomly into the fecal sample in at least 3 different sites to
ect approximately 50 mg of frees Screw the applicator to the sample collection tube with the sample on it.
For liquid samples; hold the lipster vertically and dave feces sample into the pipster. Dr 4 clouds; Cell 20 for sample in the sample collection tube.
For liquid samples collection tube and shade well to mit the sample and the dilution buffer. Wat for two minutes.

In the sample collection tube upright and open the cap. Transfer 2 drops of extracted sample well of the cassette. Avoid the formation of any larbles.

- ubbles. Results should be read at 10 minutes as shown below. Results forming after 20 minutes should be regarded as invalid.

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 DEI with extracted sample does not migrate in the test because of the particles, centrifuge the extracted sample in the perstant and adjoint person let to the sample well of a new test device and follow the instruction from step 5.













INTERPRETATION OF RESULTS

pagtive: Only one colored line is visible in "C" area.

sitive: Two colored lines are visible in "C" and "T" area.

w concentration of H. pylori antigen may cause a faint line in "T" area.

m such a faint line in "T" area should be regarded as "positive".

raild: No colored line is visible or only one colored line is visible in "T" area; test should be repeated using ever test device.

QUALITY CONTROL

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LITY CONTROL

was built in procedural quality control features. When the test is complete, the user will see a colored line in the "C" area of the test on negative diline in the "T" and "C" area on positive samples. The appearance of the control "C" line is considered as an internal procedural control. This line the "U" and "C" area on positive samples. The appearance of the control "C" line is considered as an internal procedural control. This line is the control "C" line is engative control and a positive control be used to vinance as an external control. Users should follow appropriate federal, state and local guidelines concerning the external quality controls.

H. pylori Ag Test has been evaluated with the samples from a population of symptomatic and asymptomatic individuals. Endoscope bace and following results are obtained

Sensitivity: 99.9 % Specificity: 99.9 % + Predictive V : 99.9 % - Predictive V : 99.9 % run precision of the same test has been confirmed with 100 replicates of negative, low positive and high positive samples. Negative, low positive and high posiwere correctly determined for each trial.

values were correctly determined for each trial.

Inter Assay

Between-run presicion of the same test has been confirmed with 10 independent assays with the same negative, low positive and high positive values were correctly determined for each trial.

CROSS REACTIVITY
Cross reactivity has been tested with b w samples (1,0 X 10° microorganism/ml), no cross reactivity was found with the *H. pylori* Ag Test.

Staphylococcus aureus
Pseudomonas aeruginosa
Enterococcus faecalis
Group C Streptococcus
Klebsiella pneumoniae
Branhamella catarrhalis

Proteus mirabilis Acinetobacter spp Salmonella choleraesius Gardnerella vaginalis Acinetobacter calcoacetius

Neisseria gonorrhea Group B Streptococcus Proteus vulgaris Enterococcus faecium Hemophilus influenzae Neisseria meningitidis

REFERENCES

BS, Raed AK, Malaty HM, et al. Loe point prevalance of peptic ulces in normal individual with Helicobacter pylori infection. Am J Gastroenterol. 1990, 91: 1112-1115













Candida alhicans

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