

H. pylori Urea Breath Test

PathGroup Labs

658 Grassmere Park Dr Ste 101

Nashville Tn 37211

The BreathTek™ UBT Collection Kit is intended for use in the qualitative detection of urease associated with *Helicobacter pylori* in the human stomach and as an aid in the initial diagnosis and post-treatment monitoring of *H. pylori* infection in adult patients. The test **may be used for monitoring treatment if used at least four (4) weeks following completion of therapy**. For these purposes, the system utilizes an Infrared Spectrophotometer for the measurement of the ratio of ¹³CO₂ to ¹²CO₂ in breath samples.

Common Testing Methods for *H. pylori*

	BreathTek™ UBT	Serology (ELISA)	Stool (HpSA)	Endoscopy
Sample collection	Breath Sample	Blood Sample	Stool Sample	Tissue Sample
Tests for active infection	YES	NO	YES	YES
Scope of test	Tests the entire gastric mucosa for active <i>H. pylori</i> infection ¹	Tests the immune system for prior exposure	Tests for <i>H. pylori</i> antigens in stool	Tests small areas of the stomach
Post-treatment monitoring	YES	NO	YES	YES

Collection is easy and convenient for the client:

- The client collects 2 breath samples in 4 simple steps which are administered in approximately 15 minutes (see following page).

Important Information:

- Testing will be available Monday-Friday.
- Patients should fast for approximately 1 hour prior to collection.
- Breath bag samples are stable for 7days upon collection.
- Holding one's breath for a 3-4 second period before exhaling into the breath bag is required so the CO₂ content will build to a detectable level.
- Use of the straw is imperative in the administration of the Pranactin-Citric solution so as to avoid contamination of H pylori that may be present in the mouth.
- If used to monitor treatment, testing should not be repeated for at least 4 weeks following the completion of therapy.
- The Pranactin-Citric solution contains aspartame. Some individuals demonstrate sensitivity to aspartame.
- Antimicrobials, PPI's, and bismuth preparations are known to suppress H. pylori and may produce false negative results.
- Achlorhydria and other species of Helicobacter may produce false positives.

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- The H pylori Urea Breath Test consists of 2 CPT codes. One for the collection of the specimen (83014) and the second for the testing of the specimen (83013). If a phlebotomist is not placed at the site and the client collects the breath samples, they have the ability to charge for the collection of the sample.

4 Simple Steps to Collection:



1. Collect baseline sample by having the patient inhale, hold their breath for 4-5 seconds, then exhale into the blue bag.



2. Thoroughly mix the entire Pranactin[®]-Citric packet with water in the plastic container. The patient must drink the solution using the plastic straw provided.



3. Wait 15 minutes, then collect the second breath sample in the pink bag using the same procedure as Step 1.



4. Place caps tightly on the bags to prevent sample loss. Samples are good for seven days after collection.

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