

UBT "GOLD-STANDARD"

test for diagnosis of H. pylori infection

About Headway

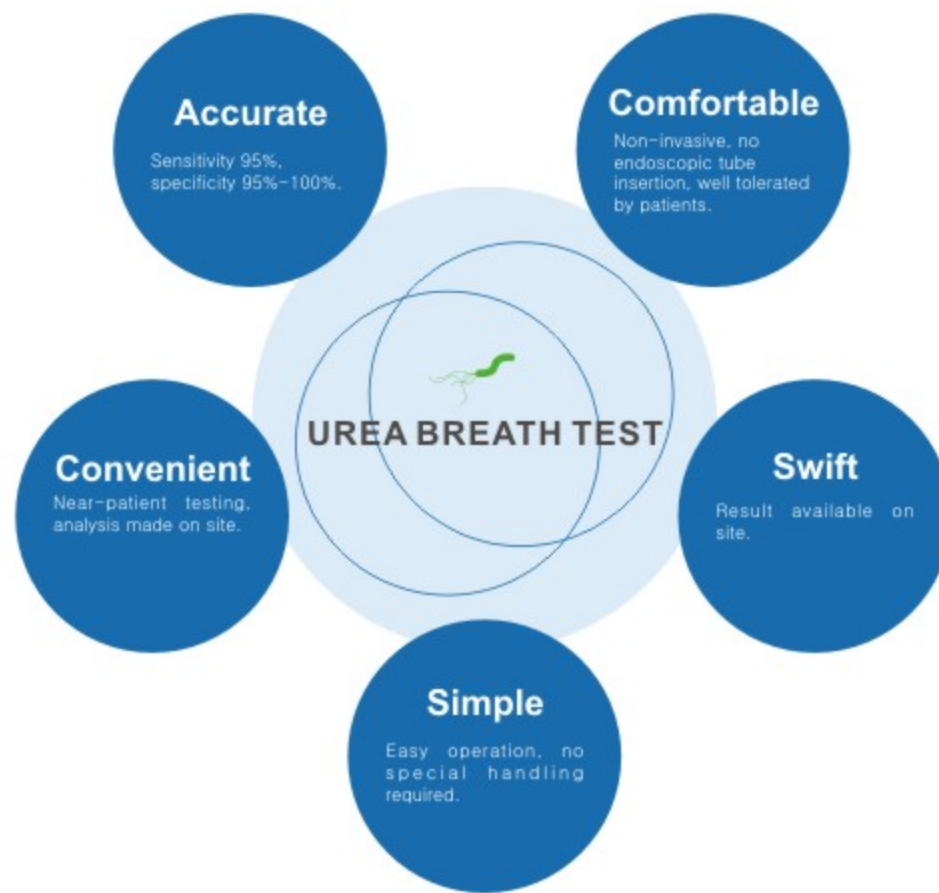
Shenzhen Zhonghe Headway Bio-Sci & Tech Co., Ltd., a subsidiary of China Isotope & Radiation Corporation, is the founder of the breath testing industry in China. We are the leading supplier of ¹³C and ¹⁴C Urea Breath Test kits and analysis equipments for the in-vitro diagnosis of Helicobacter pylori infection. We've been engaged in the research and development of non-invasive breath test methods since our foundation in 1996. Now, we are offering reliable products and excellent service to over 8000 clients throughout the world.

What is Helicobacter Pylori?

Helicobacter Pylori (H. pylori) was first discovered in 1982 by Australian scientists Barry Marshall and Robin Warren. It is a Gram-negative, microaerophilic bacterium in the stomach. H. pylori is the primary cause of gastritis, peptic ulcer disease and MALT. WHO identified H. pylori as Class I carcinogen of gastric cancer. More than 50% of the world's population harbor H. pylori in their upper gastrointestinal tract.

Why choose UBT?

Urea Breath Test provides a non-invasive, accurate and simple diagnostic technology for the detection of H. pylori. It is a method of choice for diagnosing active H. pylori infection and for monitoring the therapeutic effect of H. pylori eradication.



Common Testing Methods for Helicobacter Pylori Infection

Test method	Urea Breath Test	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 H.Pylori infection	Tests the immune system for prior exposure	Tests for H.Pylori antigens in stool	Tests small areas of the stomach
Post-treatment monitoring	YES	NO	YES	YES

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Since 1996
Once Breathed, H. Pylori Detected!



Global Urea Breath Test Expert

¹⁴C-Urea Breath Test

Helicobacter Pylori Detector

HUBT-20

Lightweight and compact
Simple one-touch operation
Result available in 5 minutes
Automatic result printing



HUBT-20A1

User-friendly operation software
Connectable to HIS/LIS
Patient database management
Rapid test and result output

HUBT-20P

Smart design, cost-effective
High accuracy and good stability
Automatic testing and result printing
Connectable to HIS/LIS



HUBT-20A

Smart and compact design
Easy operation via touch screen
Excellent reliability and easy maintenance
Patient database management



¹⁴C-Urea Breath Test Kit

Non-invasive, Accurate, Simple, Swift
Specification

- ¹⁴C-Urea capsule: 40 grains/package
- Collection card: 40 pcs/package

Operation Procedure of ¹⁴C-Urea Breath Test



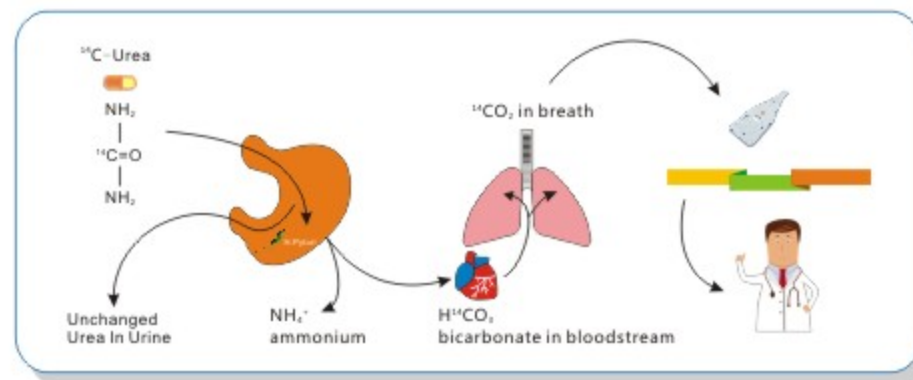
Take a ¹⁴C-Urea capsule with water.

Sit for 15 minutes.

Blow into a collection card for 3-5 minutes.

Test the collection card with Helicobacter Pylori Detector and get the result.

Principle of ¹⁴C-Urea Breath Test



- Patient swallows urea capsule labeled with ¹⁴C.
- If the patient is infected with H. pylori, orally administered ¹⁴C-Urea will be hydrolyzed into ammonia and ¹⁴CO₂. ($^{14}\text{CON}_2\text{H}_4 + \text{H}_2\text{O} \xrightarrow{\text{H. pylori}} 2\text{NH}_3 + ^{14}\text{CO}_2$)
- ¹⁴CO₂ is absorbed into the blood circulation and exhaled by the lung.
- Collect the exhale breath and test it. The presence of a significant amount of ¹⁴CO₂ in the exhaled breath indicates active H. pylori infection.

Applications of ¹⁴C-Urea Breath Test

- Dyspepsia initial diagnosis, post treatment follow-up of H. pylori infection;
- The patients need eradicate H. pylori, who suffers Gastric ulcer, duodenum ulcer, chronic active gastritis, antral gastritis or Gastric mucosa associated lymphoid tissue malignant tumor diseases;
- Precaution of gastric cancer or the ones with family history of gastric cancer;
- Refuser of gastroscopy;
- Long term user of NSAID (Non-steroidal anti-inflammatory drugs);
- Iron-deficiency anemia with unknown causes;
- Idiopathic thrombocytopenic purpura (ITP);
- Patients already take endoscopy;
- Physical examination;
- Patient wishes.

