



► **Headquarter:Shenzhen China**

- ④ 3 R&D Centers
- ④ 3 Manufacturing Centers
- 70,000m² Production Area

- ④ Serving 16 Countries & Regions
- Serving 20,000+ Medical Institutions
- Serving 300 Million+ People

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HUBT - 20P & ¹⁴C-UBT Kits



Diagnosis of H.Pylori infection

HEADWAY
Make the pursuit of health easy



Founded in 1996 in Shenzhen, China, Headway is currently the leading manufacturer & supplier of H. Pylori diagnostic—¹³C & ¹⁴C urea breath test—systems in the world. We are committed to making it easier to pursue good health by leveraging our more than 20 years of innovation in breath tests.

Vision

To be the leader in global breath detection industry

Mission

Make the pursuit of health easy

Values

Innovation, Practicality, Responsibility, Cooperation

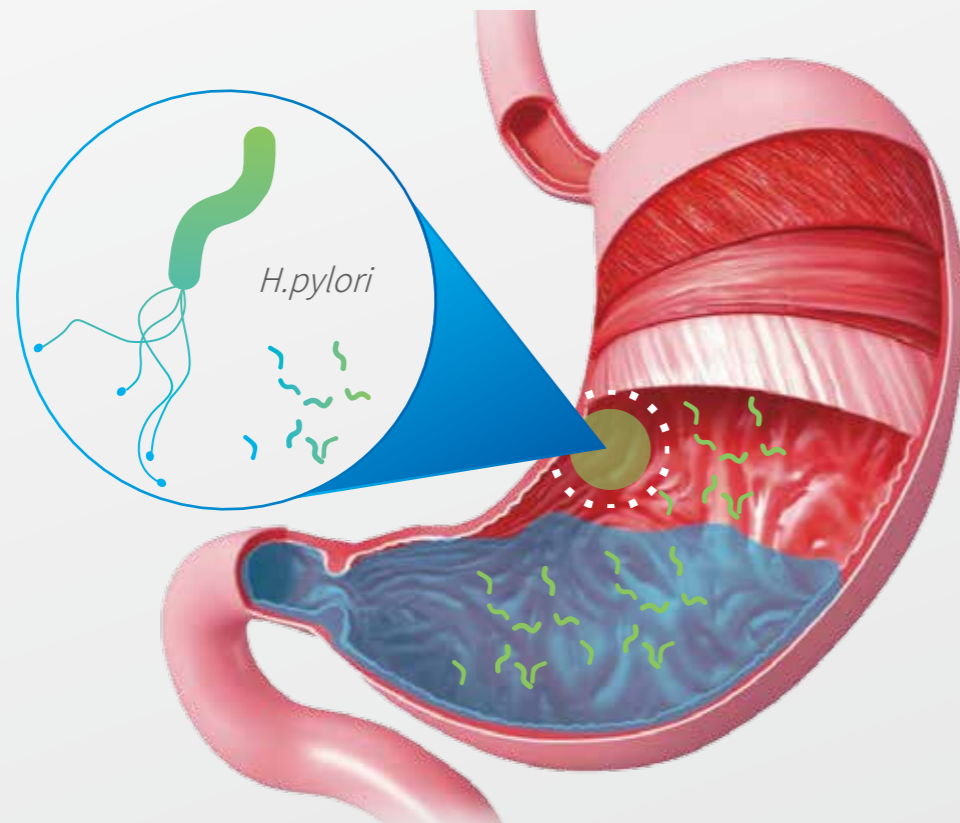
What is H.Pylori ?



The Nobel Prize in Physiology or Medicine for 2005 was awarded jointly to Barry J. Marshall and J. Robin Warren for their discovery of "the bacterium *Helicobacter Pylori* and its role in gastritis and peptic ulcer disease". *Helicobacter Pylori* is, so far, the only bacterium found in the stomach of mammals.



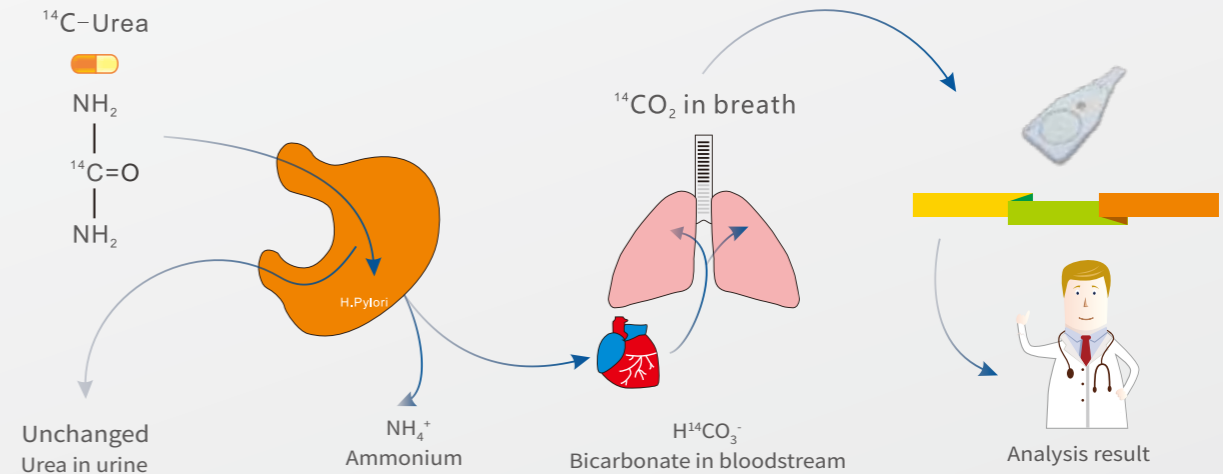
Helicobacter Pylori (H. Pylori) is a Gram-negative, microaerophilic bacterium in the stomach. It is the primary cause of gastritis, peptic ulcer disease and MALT. WHO identified H.Pylori as Class I Carcinogen of gastric cancer. Nearly 50% of the world's population have H.Pylori in their upper gastrointestinal tract.



Helicobacter Pylori is a key factor for:

- Gastric carcinoma
- Chronic active gastritis
- Gastric MALT lymphoma
- Peptic ulcer diseases

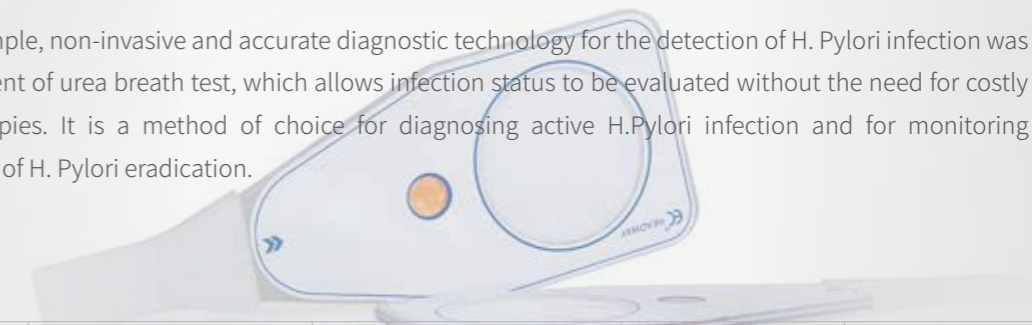
Principle of urea breath test



Common testing methods for H. Pylori

Helicobacter Pylori has been identified by invasive methods such as culture histological examination or rapid urease test on biopsy specimens as well as non-invasive methods like serological test, stool antigen test and urea breath test.

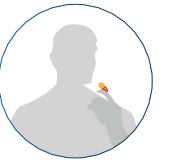
The need for a simple, non-invasive and accurate diagnostic technology for the detection of H. Pylori infection was met by the development of urea breath test, which allows infection status to be evaluated without the need for costly and invasive endoscopies. It is a method of choice for diagnosing active H.Pylori infection and for monitoring the therapeutic effect of H. Pylori eradication.



Test method	Urea breath test	Serology (ELISA)	Stool (SpsA)	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	No



The patient takes a ^{14}C urea capsule



Wait for 15 min



The patient exhales on to the card without inhaling, until the card's color changes from orange to yellow



Use the HUBT-20P test collection card for the diagnosis (positive/negative)

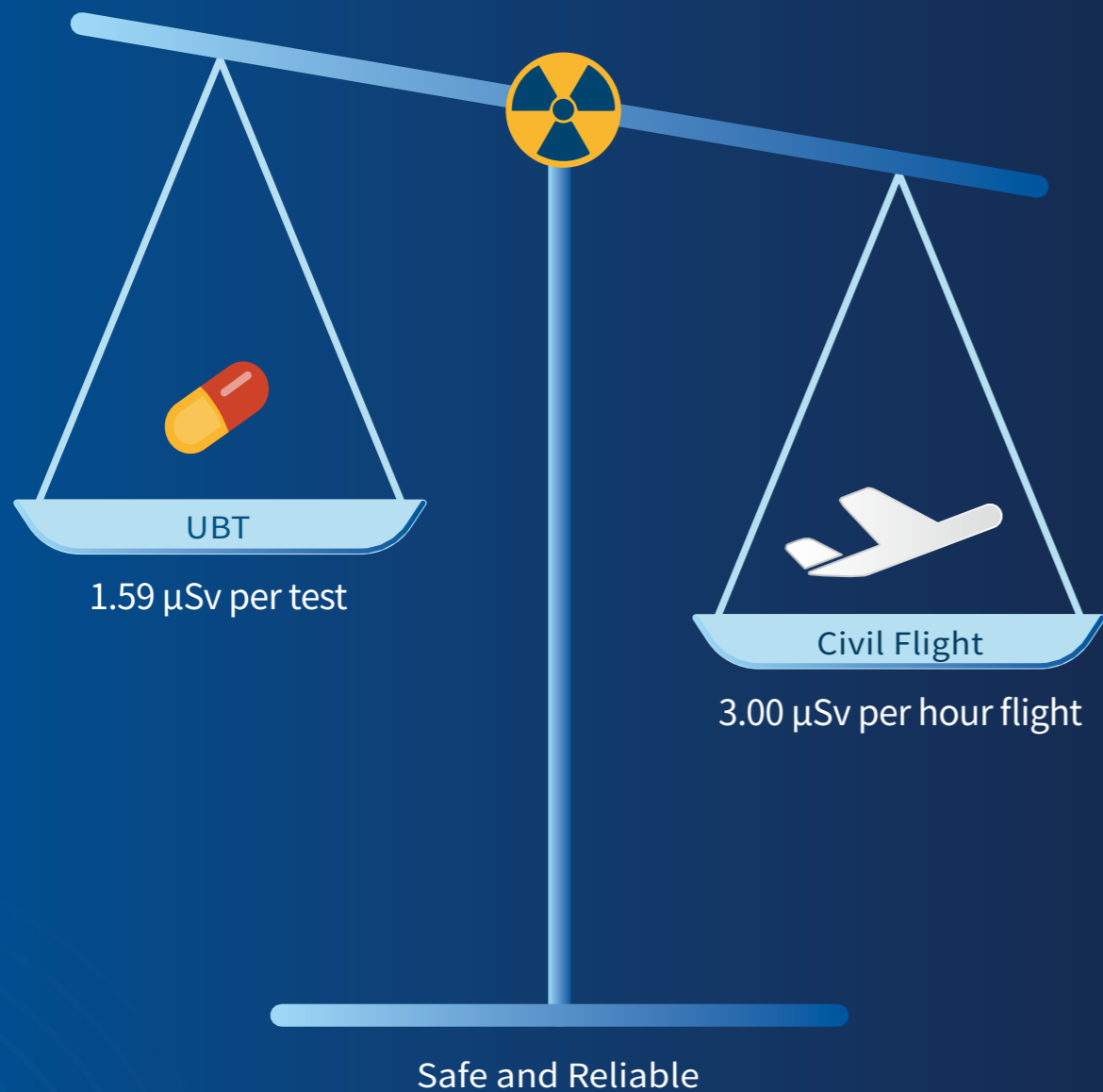


Operating Procedures of ^{14}C -Urea Breath Test

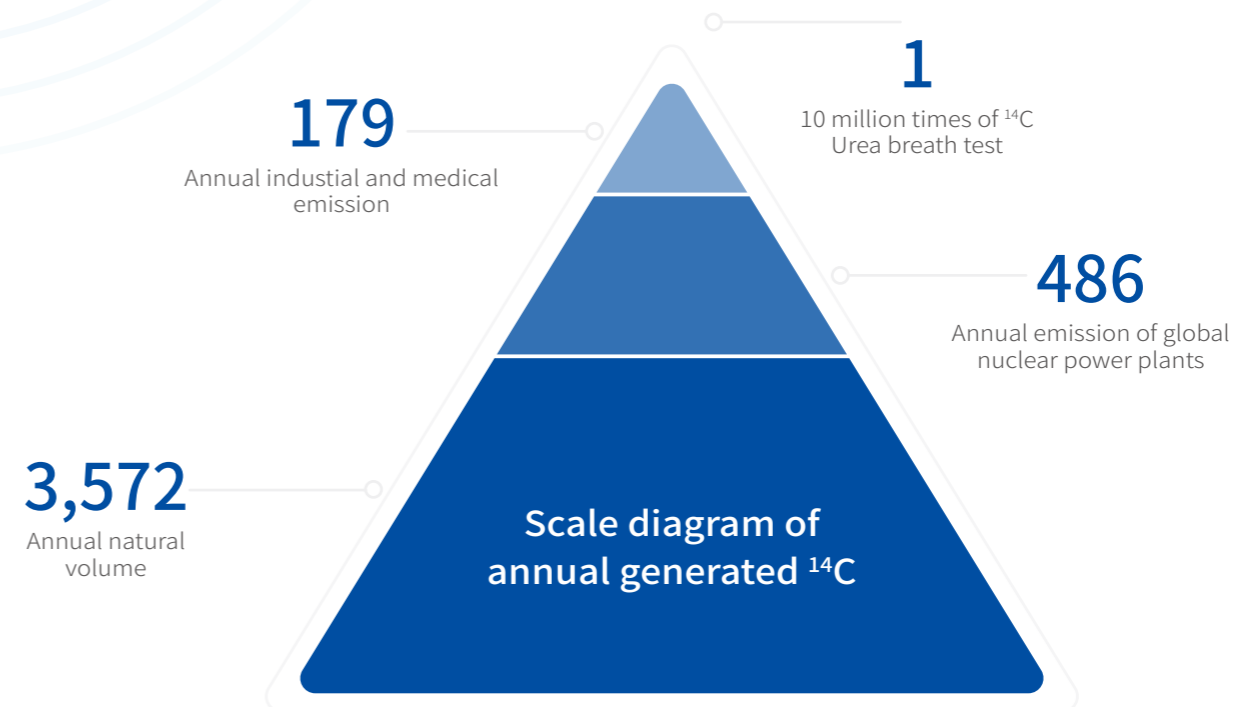
Headway provides a simple and clean solution for you and your family to protect stomach.

During the test, you may first take traces of Headway ^{14}C -urea capsule. And wait for 15 minutes. After then, you simply breathe into a collection card to capture a sample of your breath. If there is an infection of H.Pylori, it can be detected in your exhaled breath with HUBT-20P.

¹⁴C-Urea Breath Test



Environment-friendly



Exemption Regulation

Exemption from Regulation by U.S.

In 1997, the Nuclear Regulatory Commission of USA permitted diagnostic use of capsules ¹⁴C containing 1µci of C-urea without a license. Any physician can operate the urea breath test for diagnosis in the office.

Exemption from Regulation by China

On May 2002, the urea breath test with 0.75µci ¹⁴C-urea capsule was granted the exemption from regulation for internal diagnostic by the Ministry of Environmental Protection of China.



Specifications

Product Highlight:

- High accuracy with CPM result
- Lightweight and compact for easy portability and handling
- User-friendly design
- Analysis available on site within 4'10"
- Automatic measurement and patient data storage
- PC connection, professional software

Operating Condition

- Ambient Temperature: 5 °C - 40 °C
- Relative Humidity: $\leq 75\%$
- Preheating time: ≥ 30 min
- Atmospheric pressure: 75 Kpa - 106 Kpa

Storage and transportation

- Ambient temperature: -10 °C - +55 °C
- Relative humidity: $\leq 75\%$
- Stored in well-ventilated room without corrosion gas

Physical Specifications

Dimensions:

- Length: 320 mm
- Width: 300 mm
- Height: 280 mm

Weight: 9 Kg

Performance

- The efficiency of detection on ^{14}C unquenched standard source is $\geq 15\%$
- The background count of ^{14}C is ≤ 50 CPM
- The tolerance of relative variation of ^{14}C detection efficiency is $\leq 30\%$ after operating for successive 48 hours

Power supply

110-240VAC, 50/60 Hz, 30 VA max

