- **Headquarter: Shenzhen China**

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

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

Shenzhen Zhonghe Headway Bio-Sci & Tech Co., Ltd.

Add: 6/f, Building r1-b, South district, High-tech industrial park,
Shennan road, Shenzhen, 518057, China
Tel: +86-755-26619490 Fax: +86-755-26617554
Email: customercare@headwaychina.com

www.headwaychina.com

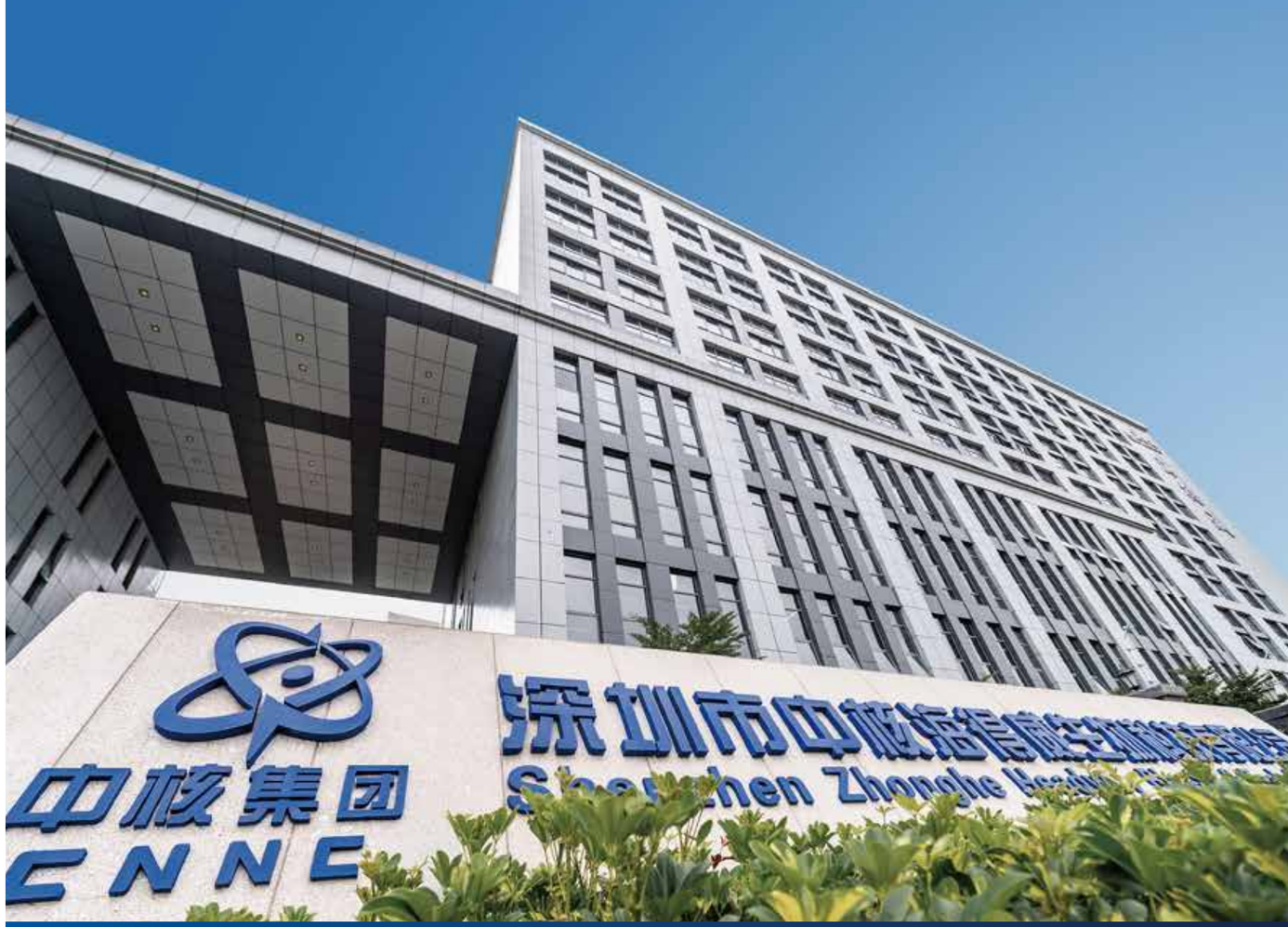
GMP ISO 13485:2016 ISO 9001:2008 CE

HCBT-01 & ^{13}C-UBT Kits

UBT
Diagnosis of H.Pylori infection

HEADWAY
Make the pursuit of health easy

HEADWAY
Make the pursuit of health easy



Founded in 1996 in Shenzhen, China, Headway is currently the leading manufacturer & supplier of H.Pylori diagnostic—^{13}C & ^{14}C 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

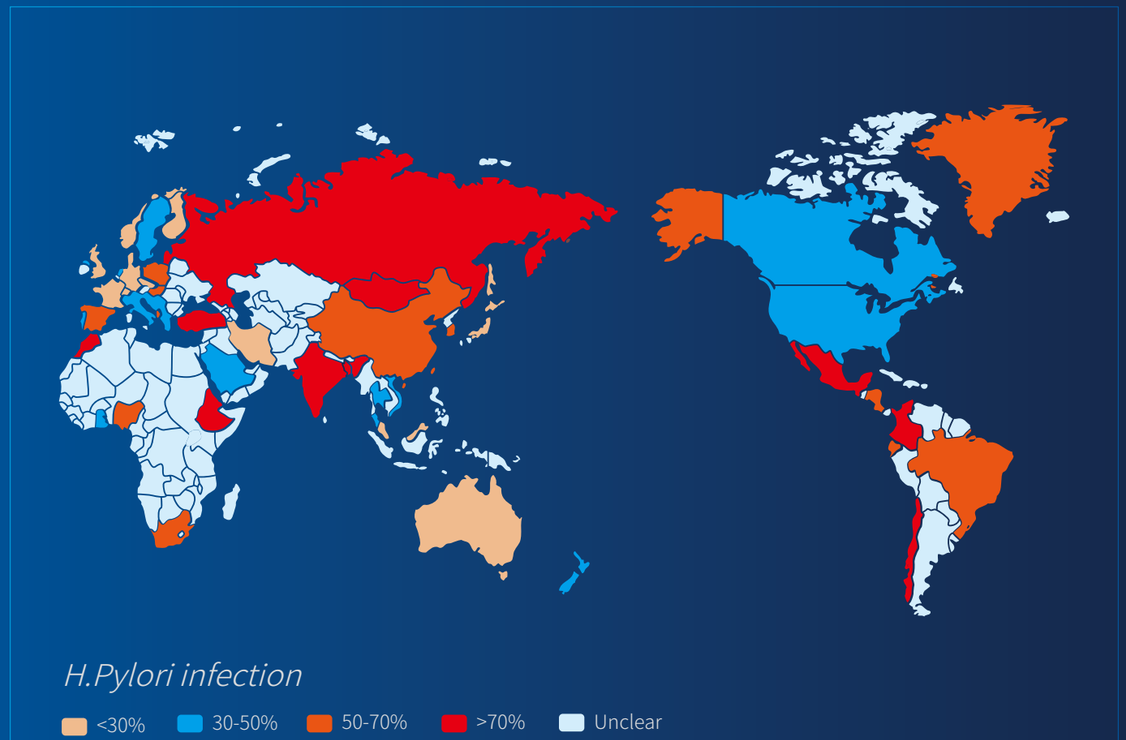
To be the leader in global breath detection industry

Mission

Make the pursuit of health easy

Values

Innovation, Practicality, Responsibility, Cooperation



Barry Marshall and Robin Warren won 2005 Nobel Prize in medicine for first separating H.Pylori from a gastric mucosal specimen.

H.Pylori colonizes in the gastrointestinal track of nearly 50% of the world's population.

H.Pylori was classified as a class I human carcinogen by the World Health Organization in 1994.

H.Pylori represents a key factor in the aetiology of various gastrointestinal diseases: Dyspepsia, Duodenal Ulcer, Gastric Ulcer, Chronic Gastritis, Gastric MALT lymphoma, MALT, Gastric Cancer.

H.Pylori is highly associated to the development of gastric cancer.

Various Testing Methods

UBT
Non-invasive, is perfectly suited for primary diagnosis and for post treatment follow-up of H.Pylori infection.

.

Histology
Invasive, several factors influence the accuracy of histology, such as site, size and number of biopsies, PPIs, antibiotics.

Culture
Invasive, less sensitive method. The cultivation in vitro requires particular transport medium, growth medium and incubation environment.

.

RUT
Invasive, several factors influence the accuracy, such as the density of bacteria present in the biopsy specimen, PPIs, bismuth, antibiotics and presence of blood.

Stool Antigen
Distasteful process of stool collection. Several factors influence the accuracy, like antibiotic, PPIs, bowel movement and upper gastrointestinal bleeding.

Serology
Low accuracy and the positive result may reflect previous rather than current infection, not useful after treatment.

Global guideline and consensus for UBT H.Pylori diagnosis

"UBT is the most reliable non-endoscopic test to document eradication of H. Pylori infection."

American College of Gastroenterology

"The diagnostic accuracy of the UBT is >95% in studies.
The UBT is an accurate, practical, and readily available test."

European Helicobacter Study Group

"A distinct advantage of [UBT] is that it can also be used to determine treatment efficacy."

Mayo Clinic Laboratoriesy

UBT have been recommended as the most accurate noninvasive tests for diagnosis of H. Pylori infection and for confirmation of eradication after therapy.

Quest Diagnostics Laboratories

Operation procedure of ^{13}C-urea breath test

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

During the test, first you may simply breathe into baseline breath bag. After taking the Headway ^{13}C-urea capsule and waiting for 30 minutes, you breathe into sample breath bag. If there is an infection, it can be detected in your exhaled breath with HCBT-01.

HCBT-01 features

- PbSe infrared sensitive detection
- Sophisticated optical system
- Steady infrared light source
- Automatic sampling injection system
- Stable temperature regulation system
- Precise signal collection system
- Automatic self-testing system
- Built-in standard curve algorithm

Principle of HCBT-01 | HEADWAY

Principle of HCBT-01

CO_2 has several characteristic absorption peaks in infrared band and there is a slight difference between the absorption peak positions of $^{13}CO_2$ and $^{12}CO_2$. By utilizing such slight difference, the HCBT-01 breath test analyzer is able to measure the concentrations of $^{13}CO_2$ and $^{12}CO_2$ respectively and then calculate the variation DOB (‰) of the abundance of ^{13}C isotopes in the sample and baseline over the natural abundance of ^{13}C, so as to determine whether the patient has been infected with H.Pylori.

Simulated infrared spectrometer lab

Specifications

Operating Condition

Indoor (protected from direct sunlight, radiation)
Temperature:15°C-30°C, avoiding sharp change in temperature
Elevation: ⩽2000m
Relative humidity: ⩽75%
Atmospheric pressure: 75kpa-106kpa

Physical Specifictions

Dimensions
- Length: 540mm
- Width: 399mm
- Height: 333mm

Weight: 17Kg

Storage and transportation

The storage environment should be protected against influences of temperature, humidity, dust, salty, corrosive gases and water
The instrument should be prevented from being inclined, inverted, shaken or drastically vibrated in transportation
Ambient temperature: -10°C- +60°C
Relative humidity: ⩽ 75%

Power supply

Power supply: AC110-240V
Maximum rated power consumption＜250VA