



AMA Co Ltd was established in 1997 from a group of people with experience in medical and chemical field. AMA is focused on development and manufacture of new test-systems for medical diagnostics and for scientific goals. The main AMA's products are test-systems for detecting the *H. pylori* due to the high level of the infection in many countries. In 2009 AMA began to perform in accordance with requirements of ISO 13485:2003 quality management system and was successful in the task by obtaining the Certificates of compliance to ISO 13485:2003 and also GOST R ISO 13485-2004 and GOST-R ISO 9001-2008.

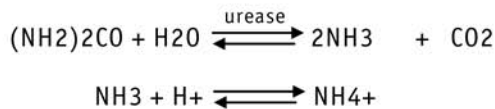
HELIC AMMONIA BREATH TEST (HELIC ABT)



HELIC Ammonia Breath Test (HELIC ABT) was designed to exclude pain and discomfort during the diagnostic procedure. Analysis consists of 2 parts: 1) detection of basal level value; 2) detection of load level value after a portion of urea (0,5 g in 50 ml of water solution) is taken. Comparing the level values one may define whether *H. pylori* infection is present.

Method characteristics

Sensitive sorbent in the indicator tube allows to detect *H. pylori* infection without using special equipment and radioactive isotope markers. The biochemical method is based on the following reaction:



H. pylori produces a large amount of urease, which degrades urea to ammonia (NH₄⁺). HELIC ABT uses kinetic registration of ammonia concentration in patient's breath air before and after a portion of unlabelled urea ¹²C is taken. The value of ammonia level is expressed in color change of indicator composition inside the tube.



Color change of indicator composition inside the tube

How to use HELIC ABT



Breath for 7 minutes



Drink urea dissolved in water



Breath for another 7 minutes



See the result (Hp+ or Hp-)

Point-of-care diagnostic

HELIC ABT is applied by gastroenterologists, general practitioners, by staff of primary health centers and dispensaries and allows to implement Near Patient Testings (NPT) in any place and situation. No samples need to be sent to a central laboratory.

Immediate result

The result is available immediately after 15 minutes of the testing.

Safety

Sensitive sorbent of the test allows doctor to detect *H. pylori* infection without using radioactive isotope markers. It can be also recommended for pregnant women and for children.

Painless

Noninvasive procedure. Can be easily applied before and after the therapy course.

Accuracy approved

The test has proved to be highly sensitive (87%) and highly specific (91%).

CE marked

AMA meets the requirements of the In-vitro Diagnostics Directive 98/79/EC and HELIC ABT is officially registered in European Community.

Easy to store

Shelf-life is 12 months. No special storage conditions are required