

## Helicobacter pylori Breath Test

Order Name: **H pylori Breath Test**  
 Test Number: 5579675  
 Revision Date: 09/01/2023

| TEST NAME                       | METHODOLOGY       | LOINC CODE |
|---------------------------------|-------------------|------------|
| Helicobacter pylori Breath Test | Spectrophotometry | 29891-9    |

### SPECIMEN REQUIREMENTS

| Specimen  | Specimen Volume (min) | Specimen Type    | Specimen Container             | Transport Environment |
|-----------|-----------------------|------------------|--------------------------------|-----------------------|
| Preferred | See Instructions      | See Instructions | H Pylori Breath Collection Kit | Room Temperature      |

**Instructions**

**Specimen Type:** One blue sample bag labeled "baseline" and one "postdose" gray sample bag.

**Specimen Storage:** Maintain specimen at room temperature.

**Specimen Collection:**

**BLUE sample bag (baseline) must be collected as follows:**

- Remove the blue breath collection bag from the kit.
- Remove the pulloff cap from mouthpiece of the breath collection bag.
- Instruct the patient to breath normally, then take a deep breath, pause holding their breath for a full second (counting one, one thousand) then exhale into the mouthpiece of the bag.
- Replace the cap on the mouthpiece of the bag.

**Prepare the fruit-flavored powder solution, containing (13)C-urea diagnostic component, as detailed in the kit instructions. Post dose sample bag gray is collected as follows:**

- Instruct the patient to drink all the solution without "rinsing" mouth before swallowing.
- Have patient sit quietly for 15 minutes. Set timer for 15 minutes.
- After 15 minutes, collect the gray sample bag as outlined for the baseline specimen above.
- All sample bags must be labeled according to LabCorp specimen labeling policies.

**Special Instructions:** This test can be performed on ADULT patients and PEDIATRIC patients between the ages of 3 and 17.

**Patient Preparation:** The patient should fast for at least one hour prior to testing. The patient should not take antimicrobials, proton pump inhibitors, or bismuth preparations within two weeks prior to testing. Note: Solution contains phenylalanine. Phenylketonurics should be warned.

**Causes for Rejection:** Prolonged transport more than seven days; specimens collected from persons younger than 3 years of age.

Labcorp Oklahoma, Inc.  
Test Directory

GENERAL INFORMATION

| <b>Expected TAT</b>                 | 1-4 days  |                |                                  |             |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
|-------------------------------------|---|----------------|----------------------------------|-------------|-------------|-------|----------------|-------------------------------|----------------|-----------------------------|---------|-------------|------------|-------------|-------------|-------|----------------|------------------------------------|----------------|----------------------------------|---------|--|--|----------------|-------------|---------|--|--|----------------|------------------|---------|--|--|----------------|------------------|--------|
| <b>Clinical Use</b>                 | <p><b>Use:</b> The urea breath test can be used to aid in the diagnosis of H pylori infection. The test can also be used to assess therapy when it is administered more than a month after completion of therapy.</p> <p><b>Additional Information:</b> The present standard of care includes testing for and treatment of Helicobacter pylori in patients with documented ulcer disease or recurrent dyspepsia. Although serologic assays have been widely used for the diagnosis of H pylori, the increasing availability of direct tests in the form of stool antigen and urea breath test provide diagnostic alternatives with higher positive predictive values. Use of "direct" tests leads to a reduction in unnecessary treatment, which is important because of the continuing concern regarding antimicrobial treatment and the emergence of antibiotic resistance. These tests each have the added feature of being able to be used as a test of cure when administered a month or more after completion of eradication therapy.</p>   |                |                                  |             |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
| <b>Performing Labcorp Test Code</b> | 180836  |                |                                  |             |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
| <b>Notes</b>                        | <p><b>Methodology:</b> IR (infrared) spectroscopy to assess the presence of <math>^{13}\text{CO}_2</math></p> <p>Labcorp Test Code: <b>180836</b></p> <p><i>One of the following reflex tests will be ordered to provide Interpretations for Adult or Pediatric patients.</i></p> <table border="1"> <thead> <tr> <th>REFLEX CODE</th> <th>ORDER NAME</th> <th>RESULT CODE</th> <th>RESULT NAME</th> <th>LOINC</th> </tr> </thead> <tbody> <tr> <td><b>6908139</b></td> <td>.Reflex H. pylori Breath Test</td> <td><b>6908139</b></td> <td>H pylori UBT Interpretation</td> <td>29891-9</td> </tr> <tr> <th>REFLEX CODE</th> <th>ORDER NAME</th> <th>RESULT CODE</th> <th>RESULT NAME</th> <th>LOINC</th> </tr> <tr> <td><b>5194914</b></td> <td>.Reflex H. pylori Breath Test Peds</td> <td><b>6908135</b></td> <td>H pylori UBT Peds Interpretation</td> <td>29891-9</td> </tr> <tr> <td></td> <td></td> <td><b>6905963</b></td> <td>Patient Age</td> <td>30525-0</td> </tr> <tr> <td></td> <td></td> <td><b>6906979</b></td> <td>Wt at collection</td> <td>29463-7</td> </tr> <tr> <td></td> <td></td> <td><b>6906977</b></td> <td>Ht at collection</td> <td>8302-2</td> </tr> </tbody> </table> | REFLEX CODE    | ORDER NAME                       | RESULT CODE | RESULT NAME | LOINC | <b>6908139</b> | .Reflex H. pylori Breath Test | <b>6908139</b> | H pylori UBT Interpretation | 29891-9 | REFLEX CODE | ORDER NAME | RESULT CODE | RESULT NAME | LOINC | <b>5194914</b> | .Reflex H. pylori Breath Test Peds | <b>6908135</b> | H pylori UBT Peds Interpretation | 29891-9 |  |  | <b>6905963</b> | Patient Age | 30525-0 |  |  | <b>6906979</b> | Wt at collection | 29463-7 |  |  | <b>6906977</b> | Ht at collection | 8302-2 |
| REFLEX CODE                         | ORDER NAME  | RESULT CODE    | RESULT NAME                      | LOINC       |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
| <b>6908139</b>                      | .Reflex H. pylori Breath Test   | <b>6908139</b> | H pylori UBT Interpretation      | 29891-9     |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
| REFLEX CODE                         | ORDER NAME  | RESULT CODE    | RESULT NAME                      | LOINC       |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
| <b>5194914</b>                      | .Reflex H. pylori Breath Test Peds  | <b>6908135</b> | H pylori UBT Peds Interpretation | 29891-9     |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
|                                     |   | <b>6905963</b> | Patient Age                      | 30525-0     |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
|                                     |   | <b>6906979</b> | Wt at collection                 | 29463-7     |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
|                                     |   | <b>6906977</b> | Ht at collection                 | 8302-2      |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
| <b>CPT Code(s)</b>                  | 83013   |                |                                  |             |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |
| <b>Lab Section</b>                  | Reference Lab   |                |                                  |             |             |       |                |                               |                |                             |         |             |            |             |             |       |                |                                    |                |                                  |         |  |  |                |             |         |  |  |                |                  |         |  |  |                |                  |        |