MAYO CLINIC LABORATORIES

# Test Definition: HPSAF

Helicobacter pylori Antigen, Feces

## Overview

### Useful For

As an aid in the diagnosis of *Helicobacter pylori*

Monitoring the eradication of *Helicobacter pylori* after therapy (in most situations, confirmation of eradication is not mandatory)

The utility of this test in asymptomatic individuals is not known, but testing for *Helicobacter pylori* in such individuals is not generally recommended

### Testing Algorithm

See *Helicobacter pylori* Diagnostic Algorithm in Special Instructions.

### Special Instructions

- Helicobacter pylori Diagnostic Algorithm

### Method Name

Chromatographic Immunoassay

### NY State Available

No

## Specimen

### Specimen Type

Fecal

### Specimen Required

**Collection Container/Tube:** Stool container
**Submission Container/Tube:** Plastic container
**Specimen Minimum Volume:** 5 g
**Collection Instructions:** Mix stool well.

### Specimen Minimum Volume

5 g

### Reject Due To

| | |
|---|---|
| Stool/Other | Very mucoid stool; or a watery, diarrheal specimen Stool in transport media, swab, or preservative |

## Specimen Stability Information

| Specimen Type | Temperature | Time | Special Container |
|---|---|---|---|
| Fecal | Frozen (preferred) | 60 days | |
| | Refrigerated | 72 hours | |

## Clinical & Interpretive

### Clinical Information

*Helicobacter pylori* is well recognized as the cause of chronic active gastritis, duodenal ulcer, and nonulcer dyspepsia.

Currently accepted methods for the diagnosis of *Helicobacter pylori* infection include serologic tests, the urea breath test (UBT), and culture or histologic examination or direct urease testing (CLO test) of biopsy specimens obtained at the time of gastroduodenoscopy (ENDO). Each of these tests has its drawbacks, including lack of specificity (serology) or high cost, complexity, and inconvenience for the patient (UBT and ENDO).

See *Helicobacter pylori* Diagnostic Algorithm in Special Instructions.

### Reference Values

Negative

### Interpretation

Positive results indicate the presence of *Helicobacter pylori* antigen in the stool.

Negative results indicate the absence of detectable antigen but does not eliminate the possibility of infection due to *Helicobacter pylori.*

### Cautions

Stool must be mixed thoroughly to ensure representative sampling.

This is a qualitative, not a quantitative, test.

Falsely negative results may be obtained within 2 weeks of treatment with antimicrobials, bismuth, or proton pump inhibitors. A negative test result in such a situation should be followed up with a repeat test at least 2 weeks after discontinuing therapy.

Interfering Substances: The following substances that may be present in human stool, **DO NOT** interfere with positive or negative test results at the stated concentrations per 500 microliters of human stool: TUMS (10 mg), Mylanta (0.84 mg), Pepto Bismol (0.35 mg), Tagamet (1 mg), Prilosec OTC (1 mg), barium sulfate (10 mg), whole blood (100 microliters), mucin (6.7 mg), human hemoglobin (ie, dark stool) (15 mg), steric + palmitic acids (ie, fatty stool) (7.9 mg).

Performance characteristics of the test have not been established for watery, diarrheal stools.

### Clinical Reference

1. NIH Consensus Development Panel. *Helicobacter pylori* in peptic ulcer disease. JAMA 1994;272:65-69

2. Report of the Digestive Health Initiative. International Update Conference on *H. pylori.* Tysons Corner, McLean, VA, Feb 13-16, 1997

## Performance

### Method Description

The Immuno*Card Helicobacter pylori* stool antigen test consists of a chromatography strip housed in a plastic frame and enclosed in a foil pouch with a desiccant. The strip carries monoclonal anti-*H. pylori* capture antibody for the test and an animal protein for a control. The strips also contain red-latex conjugated anti-*H. pylori* and blue latex-conjugated anti-protein as the detector antibodies for tests and controls, respectively.(ImmunoCard STAT HpSA, Meridian Bioscience, Inc., Cincinnati, Ohio , 2003)

### PDF Report

No

### Day(s) Performed

Monday through Saturday

### Report Available

Same day/1 to 3 days

### Specimen Retention Time

1 week

### Performing Laboratory Location

Mayo Clinic Jacksonville Clinical Lab

## Fees & Codes

### Fees

- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

### CPT Code Information

87338

### LOINC® Information

| Test ID | Test Order Name | Order LOINC® Value |
|---|---|---|
| HPSAF | Helicobacter pylori Ag, F | 80373-4 |

| Result ID | Test Result Name | Result LOINC® Value |
|---|---|---|

| | | |
|---|---|---|
| 35920 | Helicobacter pylori Ag, F | 80373-4 |