Test Definition: HELIS

Helicobacter pylori Culture with Antimicrobial Susceptibilities, Varies

Reporting Title: Helicobacter pylori Culture + Susc
Performing Location: Mayo Clinic Laboratories - Rochester Main Campus

Ordering Guidance:

For test utilization options, see *Helicobacter pylori* Diagnostic Algorithm.

Shipping Instructions:

1. Specimen must be received in laboratory within 48 hours of collection.
2. Specimen should be collected and packaged as close to shipping time as possible.

Necessary Information:

Specimen source is required; include the specific anatomic source.

Specimen Requirements:

Preferred:
Specimen Type: Fresh tissue or biopsy
Sources: Gastric or duodenum
Container/Tube: Sterile container
Specimen Volume: 0.5 x 0.2 x 0.2-cm sized piece of tissue
Collection Instructions: Acquire biopsied tissue; moisten with sterile saline

Acceptable:
Specimen Type: Fluid
Sources: Gastric brushings, gastric aspirate
Container/Tube: Sterile container
Specimen Volume: Entire collection or 0.5 mL

Forms:

If not ordering electronically, complete, print, and send 1 of the following forms with the specimen:
-Microbiology Test Request (T244)
-Gastroenterology and Hepatology Test Request (T728)

Specimen Type	Temperature	Time	Special Container
Varies	Refrigerated	48 hours	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
HELIS	Q00M0011	Specimen Source	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
HELIS	Helicobacter pylori Culture + Susc	Alphanumeric		587-6

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

87081-*Helicobacter pylori* culture
87077-Bacteria identification (if appropriate)
87153-Aerobe Ident by Sequencing (if appropriate)
87176-Tissue processing (if appropriate)
87181-Susceptibility per drug and per organism for drugs not in routine battery (if appropriate)
87186-Antimicrobial Susceptibility, Aerobic Bacteria, MIC-per organism for routine battery (if appropriate)
87150-H pylori + Clarithro Resistance PCR (if appropriate)

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
GID	Bacteria Identification	1	87077	No	No, (Bill Only)
ISAE	Aerobe Ident by Sequencing	1	87153	No	No, (Bill Only)
TISSR	Tissue Processing	1	87176	No	No, (BIll Only)
MIC	Susceptibility, MIC	1	87186	No	No, (Bill Only)
SUS	Susceptibility	1	87181	No	No, (Bill Only)
HPCR1	H pylori + Clarithro Resistance PCR	1	87513	No	No, (Bill Only)

Reference Values:

No growth of *Helicobacter pylori*

Susceptibility results are reported as minimal inhibitory concentration (MIC) in mcg/mL. Breakpoints (also known as clinical breakpoints) are used to categorize an organism as susceptible, susceptible-dose dependent, intermediate, resistant, or nonsusceptible according to breakpoint setting organizations such as the Clinical and Laboratory Standards Institute (CLSI), the European Committee on Antimicrobial Susceptibility Testing (EUCAST), or the US Food and Drug Administration (FDA). Breakpoints are updated annually to reflect those published in the most current edition.

Breakpoints published by CLSI are used for routine susceptibility results. For those antimicrobials which do not have CLSI breakpoints, FDA breakpoints are used.

The CLSI breakpoint for clarithromycin and EUCAST breakpoints for antimicrobials other than clarithromycin are utilized for *Helicobacter pylori*.

In some instances, an interpretive category cannot be provided based on available data; therefore, the following comment will be included on the report: There are no established interpretive guidelines for agents reported without interpretations.

For information regarding CLSI and EUCAST susceptibility interpretations, see Susceptibility Interpretative Category Definitions.