## Lab Dept: Microbiology

Test Name:	HELICOBACTER PYLORI ANTIGEN IN STOOL
General Information	
Lab Order Codes:	HPA
Synonyms:	H. pylori antigen; Stool for H. Pylori antigen; Feces for H. pylori antigen
CPT Codes:	87338 - Infectious agent antigen detection by enzyme immunoassay technique. Qualitative or semi quantitative multiple step method; Helicobacter pylori, stool
Test Includes:	Screening for the presence of Helicobacter pylori antigen.
Logistics	
Lab Testing Sections:	Microbiology
Phone Numbers:	MIN Lab: 612-813-5866
	STP Lab: 651-220-6555
Test Availability:	Daily, 24 hours
Turnaround Time:	1 day
Special Instructions:	Specimen site and date/time of collection are required for processing.
Specimen	
Specimen Type:	Fresh, random stool
Container:	Plastic, leakproof container
Volume:	1 gram stool
Collection:	<ol> <li>Collect stool in a clean, dry bedpan or on a newspaper over the toilet. Avoid urine and toilet water in specimens, which may cause a dilution factor.</li> <li>Transfer specimen to a plastic, leakproof container. Do not overfill or contaminate the outside of the container.</li> <li>Transport to the laboratory within 2 hours of collection. Refrigerate specimen if a delay &gt;2 hours is anticipated.</li> </ol>

Transport/Storage:	<b>Onsite collections:</b> Transport to the Microbiology Laboratory immediately.
	<b>Offsite collections:</b> Refrigerate specimen. Specimens must be promptly transported to the laboratory, with the next available courier, not to exceed 24 hours from the time of collection.
	<ul> <li>If testing cannot be performed within 72 hours, freeze specimen immediately upon receipt and store at -20° to -80°C. Frozen specimens may be thawed twice.</li> </ul>
Patient Preparation:	False-negative results may occur on patients receiving antimicrobials, proton pump inhibitors, and bismuth preparations. If a negative result is obtained on a patient receiving these compounds, the test should be repeated on a new specimen obtained two weeks after discontinued treatment.
Sample Rejection:	Unrefrigerated specimen with a transit time exceeding 2 hours after collection; specimen not submitted in appropriate transport container; improperly labeled specimen; insufficient volume; external contamination; stools received in transport media, on swabs or mixed with preservatives. If an unacceptable specimen is received, the physician or nursing station will be notified and another specimen will be requested before the specimen is discarded.
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Reference Range:	No Helicobacter pylori antigen detected
Reference Range: Limitations:	No <i>Helicobacter pylori</i> antigen detected <ul> <li>Test results should be used in conjunction with information available from the patient clinical evaluation and other diagnostic procedures.</li> </ul>
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Additional Information:	<i>Helicobacter pylori</i> infection has been linked to gastritis, duodenal ulcer, gastric cancer, and mucosa-associated lymphoid tissue lymphoma. Most <i>H. pylori</i> infections are acquired during childhood or adolescence in developing countries and developed countries. <i>H. pylori</i> infection was found in 90% of children with gastric ulcers. Acquisition of <i>H. pylori</i> at an early stage might increase the risk of the development of gastric cancer. The route of transmission is unclear; however, the presence of <i>H. pylori</i> in saliva, dental plaque and feces is suggests both oral to oral and fecal to oral transmission.
References:	Miller, J Michael (1999) A Guide to Specimen Management in Clinical Microbiology, American Society for Microbiology, Washington DC
	Baron, Ellen, and R Thompson (2011) Specimen Collection, Transport, and Storage in J Versalovic et al, (ed), Manual of Clinical Microbiology, 10 <sup>th</sup> edition, American Society for Microbiology, Washington DC, pp 228-263
Updates:	9/30/13: Method previously listed as EIA (enzyme immunoassay) antigen capture. Updated references. Updated rejection criteria. 11/20/14: Offsite information added. 2/8/22: Updated specimen type