Lab Dept:

Microbiology

Test Name: DUODENAL ASPIRATE CULTURE AND GRAM STAIN

General Information

Lab Order Codes:	DUOC
Synonyms:	Culture, Duodenal Aspirate
CPT Codes:	 87071 - Culture, bacterial; quantitative, aerobic with isolation and presumptive identification of isolates, any source except urine, blood or stool 87205 - Smear, primary source with interpretation; Gram or Giemsa stain for bacteria, fungi or cell types The following testing may be added if appropriate based on findings for organism identification (multiple additions are possible if more than one organism is identified) and to aid in patient treatment management. 87077 - Aerobic isolate, additional methods required for definitive identification, each isolate (if appropriate) 87106 - Culture, fungi, definitive identification, each organism, yeast (if appropriate) 87107 - Culture, mold, definitive identification, each organism, mold (if appropriate) 87147 - Culture, typing; immunologic method, other than immunofluorescence (e.g., agglutination grouping), per antiserum (if appropriate) 87184 - Susceptibility studies, disk method, per plate (if appropriate) 87186 - Susceptibility studies, microdilution or agar dilution, each multiantimicrobial, per plate (if appropriate) 87206 - Smear, primary source with interpretation, fluorescent and/or acid fast stain for bacteria, fungi or cell types (if appropriate)
Test Includes:	Quantitative culture of aerobic flora and Gram stain.
Logistics	
Lab Testing Sections:	Microbiology
Phone Numbers:	MIN Lab: 612-813-5866
	STP Lab: 651-220-6555
Test Availability:	Daily, 24 hours
Turnaround Time:	Preliminary report available at 1 day, final report within 2 - 5 days.

Specimen Specimen Type: Duodenal aspirate Specimen Type: Duodenal aspirate Container: Sterile container Yolume: 1 mL aspirate Collection: Specimen is obtained by use of a gastroduodenal tube or a fiber endoscopy study, either by direct aspiration or into a trap. Transport/Storage: Onsite collections: Transport to the Microbiology laboratory immediately at room temperature. Offsite collections: Do not refrigerate, store at room temperature. Specimens must be promptly transported to the laboratory, with next available courier, not to exceed 24 hours from the time of collection. Patient Preparation: Patient must take nothing by mouth after midnight the night before text	ecimen
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Sample Rejection: Improperly labeled specimen; specimens with prolonged transit (see <u>Transport/Storage</u> for requirements); insufficient volume; excontamination. If an unacceptable specimen is received, the phy or nursing station will be notified and another specimen will be requested before the specimen is discarded.	time xternal ⁄sician
Interpretive	
Reference Range: Duodenal aspirates in most individuals contain some lactobacilli streptococcus, various fungi and rare <i>Bacteroides</i> sp. present in densities of 1000 organisms/mL or less.	, 1
 Alert Value: Gram-negative rods identified as ESBL or Carbapenemase prwill be called to the physician or patient's nurse. Infection Preverwill be notified. If MRSA is isolated for the first time, and the patient location is Emergency department, the result will be called to the physician patient's nurse. 	roducers ntion s not o or
Methodology: Quantitative culture	
Additional Information: Bacterial densities exceeding 10 ⁵ /mL in small bowel fluid usually indicates abnormality of the gastrointestinal tract: blind loop, achlorhydria or some malabsorption syndrome.	V

References:	Cook, JH, and M Pezzlo (1992). Specimen receipt and accessioning. Section 1. Aerobic bacteriology, 1.2.1-4. In HD Isenberg (ed) Clinical Microbiology Procedures Handbook. American Society for Microbiology, Washington DC
	Miller, J Michael (1999) A Guide To Specimen Management in Clinical Microbiology, American Society for Microbiology, Washington DC
	Miller, J Michael, and HT Holmes (1999) Specimen Collection, Transport, and Storage In PR Murray et al, (ed), Manual of Clinical Microbiology, 7 th edition, American Society for Microbiology, Washington DC, pp 33-104
Updates:	3/22/2010: CPT Updates 6/19/2012: Added Alert Value 11/11/2014: Added offsite collection information