Lab Dept:

Microbiology

Test Name: ABSCESS CULTURE AND GRAM STAIN

General Information

Lab Order Codes:	AC
Synonyms:	Culture, Abscess
	Related information: Refer to Wound Culture.
CPT Codes:	87070 – Culture, bacterial; any other source except urine, blood or stool, aerobic, with isolation and presumptive identification of isolates 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.
	 87075 - Culture, bacterial; any source, except blood, anaerobic with isolation and presumptive identification of isolates 87076 - Anaerobic isolate, additional methods required for definitive identification of isolates 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) 87185 - Enzyme detection (eg, beta lactamase), per enzyme (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:	Gram stain and culture for aerobes. All aerobic organisms will be identified. Susceptibilities will be performed if requested or warranted.
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 reports are available at 24 hours; final results reported within 5 days.
Special Instructions:	Specimen site and date/time of collection are required for specimen processing. Indicate suspected organisms and diagnosis. If a <i>Mycobacterium</i> species (AFB, TB) or fungus is suspected, request <u>AFB</u> <u>Culture</u> or <u>Fungal Culture</u> .
Specimen	
Specimen Type:	Pus, fluid or aspirated material. Aspirated material is superior to a swab specimen.
Container:	Sterile container or
	Swab transport medium
	 White top, Liquid Stuart (CHC #359) or Red top double swab, Liquid Stuart (CHC #19092)
Volume:	0.5 - 5 mL pus, fluid or aspirated material
Collection:	 Disinfect skin surface with 70% alcohol. Allow to dry. Aspirate specimen directly into the syringe. Remove air from syringe. Aseptically transfer material into a sterile container. If the specimen must be transported in the syringe, replace the needle with a sterile Leur cap. If unable to aspirate and swab is used, pass a swab deep into the lesion and firmly sample the lesion's advancing edge. Place swab into a culturette transport system for aerobes.
Transport/Storage:	Onsite collections: Transport to the laboratory immediately at room temperature. Do not refrigerate .
	Offsite collections: Specimens must be promptly transported at room temperature to the laboratory, with the next available courier, not to exceed 24 hours from the time of collection.
Sample Rejection:	Improperly labeled specimen; specimens with prolonged transit time (see <u>Transport/Storage</u> for requirements); specimen not submitted in appropriate transport container; insufficient volume; external contamination. 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.

Interpretive

Reference Range:	No growth
Alert Value:	 Gram-negative rods identified as ESBL or Carbapenemase producers will be called to the physician or patient's nurse. Infection Prevention will be notified.
	 If MRSA is isolated for the first time, and the patient location is not Emergency department, the result will be called to the physician or patient's nurse.
	• Any culture positive for potential agents of Bioterrorism – Bacillus anthracis, Brucella, Burkholderia mallei/pseudomallei, Francisella tularensis, or Yersinia pestis will be called to Infection Prevention.
	 If any acid-fast bacilli is isolated, the result will be called to the physician or patient's nurse.
Limitations:	If anaerobes are suspected, specifically order Anaerobic Culture.
	Any specimen submitted for microbial culture can be contaminated with colonizing organisms that are not contributing to disease. Organisms most likely to contaminate specimens of this type include, but are not limited to, <i>Corynebacterium</i> sp. and coagulase-negative staphylococci. However, these organisms may be pathogenic in certain settings.
	Slow-growing <i>Mycobacterium</i> sp. or <i>Nocardia</i> sp. that may cause abscesses will not be recovered in routine bacterial cultures even if present, since extended incubation periods or special media are necessary for their isolation. Cultures for these organisms should be specifically requested.
Methodology:	Culture
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. 6/20/2012: Alert Value amended 10/18/2018: CPT update