Lab Dept: Microbiology

Test Name: BODY FLUID CULTURE AND GRAM STAIN

**General Information**

**Lab Order Code:** BF

**Synonyms:**
- Culture, Abdominal Fluid; Culture, Ascites fluid; Culture, Joint fluid;
- Culture, Bile fluid; Culture, Body fluid; Culture, Pericardial fluid; Culture,
- Pleural fluid; Culture, Synovial fluid; Ascites fluid culture; Abdominal
- fluid culture; Bile fluid culture; Joint fluid culture; Pericardial fluid culture;
- Peritoneal fluid culture; Pleural fluid culture; Synovial fluid 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 the
specimen submitted, 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, each isolate
- 87015 – Concentration (any type), for infectious agents
- 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 (e.g, beta lactamase), per enzyme (if
  appropriate)
- 87186 – Susceptibility studies, microdilution or agar dilution, each multi-
  antimicrobial, per plate (if appropriate)
- 87076 – Anaerobic isolate, additional methods required for definitive
  identification of isolates
- 87206 – Smear, primary source with interpretation, fluorescent and/or
  acid fast stain for bacteria, fungi or cell types (if appropriate)

**Test Includes:**
- Gram stain, culture for aerobes. All aerobic organisms will be identified.
  Susceptibilities will be performed if requested.

**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 7 days.

**Special Instructions:**
- **Specimen site and date/time of collection** are required for specimen processing.
- If an anaerobic infection is suspected, i.e., *Actinomyces* species. Refer to [Anaerobic Culture](#). If a *Mycobacterium* species (AFB, TB) or fungus is suspected, request [AFB Culture](#) or [Fungal Culture](#).

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**Specimen**

**Specimen Type:** Aseptically aspirated body fluid (excludes cerebrospinal fluid, blood, and urine) from a normally sterile site. **Do not submit swabs.**

**Container:** Sterile container or syringe  
AND in addition: BACTEC® PEDS PLUS/F blood culture bottle (pink cap) may be used for joint fluids.  

Note: Results may be delayed if only a bottle is submitted for culture.

**Volume:**  
- Peritoneal dialysis (PD) fluid: 10 – 15 mL  
- Other fluids: 1 – 15 mL (Minimum: 0.5 mL)

**Collection:** If percutaneous collection, prepare skin as for blood culture.

1. Aspirate fluid with a sterile syringe and needle.  
2. Expel air bubbles from syringe.  
3. Aseptically transfer specimen into sterile container.  
4. If the specimen is of a small amount and must be transported in a syringe, replace the needle with a sterile Lem cap.  
5. Additionally BACTEC® PEDS PLUS/F blood culture bottle (pink cap) may be used for joint fluids. However, results may be delayed if only a bottle is submitted for culture.

**Transport/Storage:**

**Onsite collections:** Transport to the laboratory immediately at room temperature. **Do not refrigerate. Do not** transport through the pneumatic tube.

**Offsite collections:** Specimens must be promptly transported to the laboratory at room temperature, 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 Transport/Storage 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

Critical Values: ● Significant isolates from a sterile site will be called to the physician or patient's nurse.
● Infection Prevention will be notified with gram stain results that appear to be gram-negative cocci/diplococci.

Limitations: If an anaerobic infection is suspected, i.e., Actinomyces species, refer to Anaerobic Culture.

Methodology: Culture

References:


Updates: 3/23/2010: CPT updates
3/7/2011: CPT updates
6/20/2012: Amended Critical Value
11/14/2018: Updated information on anaerobes