Lab Dept: Microbiology/Virology

Test Name: TISSUE CULTURE AND GRAM STAIN

General Information

Lab Order Codes: TISC

Synonyms: Culture, Tissue; Culture, Biopsy; Biopsy Culture

CPT Codes:
- 87176 – Homogenization, tissue, for culture
- 87070 – Culture, bacterial; any other source except urine, blood or stool, 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 multi-antimicrobial, 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. All aerobic organisms will be identified.

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.

Special Instructions:
- Specific site and date/time of collection are required for specimen processing.
- For isolation of anaerobes, refer to Anaerobic Culture.
- Cultures for Helicobacter pylori culture and/or susceptibility testing will be referred to Fairview Medical Labs. Please order this test as a Miscellaneous Battery.
- If a Mycobacterium species (AFB, TB) or fungus is suspected, request AFB Culture or Fungal Culture.

Specimen

Specimen Type: Tissue

Container: Sterile container

Volume: 1 gram tissue

Collection: Tissue:
1. Submit in sterile container.
2. For small samples, add a few drops of sterile saline to keep moist. **Do not** allow tissue to dry out.
3. The portion of the biopsy specimen submitted for culture should be separated from the portion submitted for histopathology by the surgeon or pathologist.

Transport/Storage:
- Onsite collections: Transport to the Microbiology Laboratory ≤15 min at room temperature
- Offsite collections: Do not refrigerate, store at room temperature. Specimens must be promptly transported to the laboratory, with the next available courier, not to exceed 24 hours from the time of collection. However, delayed transport causes a delay of test results.

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
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*, *Franciscella tularensis*, or *Yersinia pestis* will be called to Infectious Disease and/or Infection Prevention.
- If Group A *Streptococcus* is isolated, the result will be called to the physician or patient’s nurse.
- If any acid-fast bacilli is isolated, the result will be called to the physician or patient’s nurse.

Limitations:

If an anaerobic infection is suspected, refer to separate listing for Anaerobic Culture.

Methodology:

Culture

References:


Updates:

3/23/2010: CPT Updates
3/7/2011: CPT Updates
6/20/2012: Alert value amended, critical value removed.
11/20/2014: Offsite information added.
11/14/2018: Updated information on anaerobes