Lab Dept: Microbiology

TISSUE CULTURE AND GRAM STAIN **Test Name:** 

**General Information** 

**Lab Order Codes: TISC** 

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

**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)

Gram stain and culture. All aerobic organisms will be identified. **Test Includes:** 

Logistics

Microbiology **Lab Testing Sections:** 

**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

Tissue: Collection:

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.

Improperly labeled specimen; specimens with prolonged transit time Sample Rejection:

(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:

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<sup>th</sup> edition, American Society for Microbiology, Washington DC, pp 33-104

**Updates:** 

3/23/2010: CPT Updates 3/7/2011: CPT Updates

4/25/2012: Addition of Critical and Alert values.

6/20/2012: Alert value amended, critical value removed.

11/20/2014: Offsite information added.

11/14/2018: Updated information on anaerobes