
Lab Dept: Microbiology

Test Name: GENITAL CULTURE, ROUTINE

General Information

Lab Order Codes: GENC

Synonyms: Culture, Genital (Routine); Culture, Cervix; Culture, Urethra; Culture, Vagina

CPT Codes: 87070 – Culture, bacterial; any other source except urine, blood or stool, with isolation and presumptive identification of isolates

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).

87077 – Aerobic isolate, additional methods required for definitive identification, each isolate (if appropriate)

87185 – Enzyme detection (eg, beta lactamase), per enzyme (if appropriate)

87147 – Culture, typing; immunologic method, other than immunofluorescence (e.g., agglutination grouping), per antiserum (if appropriate)

87206 – Smear, fluorescent and/or acid fast stain for bacteria, fungi, parasites, viruses or cell types (if appropriate)

Test Includes: Culture of aerobic flora including *N. gonorrhoeae*, *N. meningitidis*, group A and B streptococci, *Staphylococcus aureus*, *Haemophilus influenzae*, *Gardnerella vaginalis*, *Listeria monocytogenes*, *Candida* sp., *Salmonella* sp., *Shigella* sp., and *E. coli* in pure culture.

Gram stain is **not** included with this test. A Gram stain will be performed if specifically requested with an additional charge.

Logistics

Lab Testing Sections: Microbiology

Phone Numbers: MIN Lab: 612-813-5866

STP Lab: 651-220-6555

Test Availability: Daily, 24 hours

Turnaround Time: Results are reported within 3 days.

Special Instructions: **Specimen site** and **date/time of collection** are required for processing.

Specimen

Specimen Type: Swab, aspiration, or drainage

Container:

- Sterile container
- Swab transport medium
 - White top, Liquid Stuart (CHC #359) or
 - Red top double swab, Liquid Stuart (CHC #19092) or
 - NP flexible wire swab (CHC #811)

Collection: **Females:**

Cervix

1. Remove mucus and secretions from the cervix with a swab and discard.
2. With a new sterile swab, firmly sample the endocervical canal.
3. Place in swab culturette.

Vagina

1. Wipe away excessive amount of secretion or discharge.
2. Obtain secretions from mucosal membrane of the vaginal vault with a sterile swab.
3. If smear is also requested, collect a second swab.
4. Place swab in culturette.

Males:

Urethra

1. Insert an urethrogenital swab 2 to 4 cm into the urethral lumen, rotate swab.
2. Leave in place for at least 2 seconds to facilitate absorption.
3. Place swab in culturette.

Transport/Storage: **Onsite collections:** Transport to the Microbiology Laboratory immediately. **Do not refrigerate.** Refrigeration may prevent the recovery of *Neisseria gonorrhoeae*.

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); specimens 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: Normal vaginal flora (females)

Normal skin flora (males)

See **Additional Information** for a list of normal flora.

Alert Value: If *Neisseria gonorrhoeae*, *Listeria*, *Salmonella* or *Shigella* are isolated, results will be called to the physician or patient's nurse.

Limitations: Herpes simplex virus, *Chlamydia*, and *Ureaplasma urealyticum* are **not** recovered by this procedure. Refer to separate listings.

Methodology: Aerobic culture with selective (Thayer-Martin) and nonselective media.

Additional Information: Normal vaginal flora includes Lactobacilli, Corynebacteria, enteric Gram negative rods, Enterococci, alpha and gamma Streptococci, coagulase-negative Staphylococci, and anaerobes.

The male urethra contains organisms found on the skin, such as coagulase-negative Staphylococci, Micrococci, Corynebacteria, alpha and gamma Streptococci.

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, 7th edition, American Society for Microbiology, Washington DC, pp 33-104

Updates: 3/24/2010: CPT Updates
3/7/2011: CPT Updates
4/25/2012: Addition of Alert Value.
11/20/2014: Offsite information added.
7/8/2016: Direct inoculation procedure removed.