
Lab Dept: Microbiology

Test Name: BONE MARROW CULTURE, FUNGUS

General Information

Lab Order Codes: BMCF

Synonyms: Culture, Bone Marrow for Fungus; Fungus Culture, Bone Marrow

CPT Codes: 87102 – Culture, fungi isolation, with presumptive identification of isolates; skin, hair or nail, other source

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.

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)

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: Culture for yeast and filamentous fungi.

The physician or patient's nurse will be notified of all positive cultures.

Logistics

Lab Testing Sections: Microbiology

Phone Numbers: MIN Lab: 612-813-5866

STP Lab: 651-220-6555

Test Availability: Daily, 24 hours

Turnaround Time: Positives results are reported when detected. Negative cultures are final after 30 days.

Special Instructions:

- **Specimen site** and **date/time of collection** are required for processing.
 - If a *Mycobacterium* species (AFB, TB) is suspected, request [AFB Culture, Non-blood](#).
 - Refer to [Bone Marrow Culture](#) for routine bacterial culture.
-

Specimen

Specimen Type:

Bone marrow

Container:

BACTEC Myco/F Lytic bottle (red)

Obtain from Material (storeroom item #14892)



Volume:

1-5 mL (Minimum: 1.0 mL) bone marrow

Collection:

1. Remove the protective cap from the bottle, disinfect the top of the BACTEC Myco/F Lytic bottle with 70% alcohol, remove wipe and allow to dry.
2. Prepare puncture site as for surgical incision.
3. Collect 1-5 mL of bone marrow and aseptically inoculate the BACTEC Myco/F Lytic bottle.

Transport/Storage: Transport to the Microbiology Laboratory immediately at room temperature. **Do not refrigerate.**

- If sending bottles through the pneumatic tube system, package bottles separately to avoid breakage. Use of plastic bottle holders are recommended.

Sample Rejection: Specimen with a transit time exceeding 48 hours after collection; specimen not submitted in appropriate transport container; improperly labeled specimen; 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 fungus isolated after 30 days

Critical Values: All positive results will be called to the physician or patient's nurse.

Limitations:

- A single negative culture does not rule out disseminated fungal infection. If disseminated or deep fungal infection is strongly suspected, biopsy of the appropriate tissue and/or bone marrow aspiration for sections and fungus culture should be considered.

Methodology: BACTEC™ FX Fluorescent Series

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: 3/23/2010: CPT updates

12/18/2023: Discontinued Wampole Isolator tubes. Changed Methodology to BACTEC™ FX Fluorescent Series