Overview

Useful For
Diagnosing fungal infections from specimens other than blood, skin, hair, nails, and vagina (separate tests are available for these specimen sites)

Reflex Tests

<table>
<thead>
<tr>
<th>Test ID</th>
<th>Reporting Name</th>
<th>Available Separately</th>
<th>Always Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>D2F</td>
<td>D2 Fungal Sequencing Identification</td>
<td>No, (Bill Only)</td>
<td>No</td>
</tr>
<tr>
<td>FUNA</td>
<td>Fungal Ident Panel A</td>
<td>No, (Bill Only)</td>
<td>No</td>
</tr>
<tr>
<td>FUNB</td>
<td>Fungal Ident Panel B</td>
<td>No, (Bill Only)</td>
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</tr>
<tr>
<td>LCCI</td>
<td>Ident Rapid PCR Coccidioides</td>
<td>No, (Bill Only)</td>
<td>No</td>
</tr>
<tr>
<td>LCHB</td>
<td>Id, Histoplasma/Blastomyces PCR</td>
<td>No, (Bill Only)</td>
<td>No</td>
</tr>
<tr>
<td>RMALF</td>
<td>Id MALDI-TOF Mass Spec Fungi</td>
<td>No, (Bill Only)</td>
<td>No</td>
</tr>
<tr>
<td>TISSR</td>
<td>Tissue Processing</td>
<td>No, (Bill Only)</td>
<td>No</td>
</tr>
<tr>
<td>RMALY</td>
<td>Id MALDI-TOF Mass Spec Yeast</td>
<td>No, (Bill Only)</td>
<td>No</td>
</tr>
</tbody>
</table>

Testing Algorithm
When this test is ordered, the reflex tests may be performed and charged.

See Meningitis/Encephalitis Panel Algorithm in Special Instructions.

Special Instructions
- Meningitis/Encephalitis Panel Algorithm

Method Name
Conventional agar culture technique with identification by macroscopic and microscopic morphology, D2 rDNA gene sequencing, real-time polymerase chain reaction (rtPCR), or MALDI-TOF mass spectrometry. Dimorphic pathogen identification is confirmed using molecular methods (ie, D2 rDNA gene sequencing, rtPCR or MALDI-TOF mass spectrometry).

NY State Available
Yes

Specimen

Specimen Type
Advisory Information

*Nocardia* and the other aerobic actinomycetes are not fungi and a fungal culture should not be ordered. These organisms grow well on mycobacterial medium and, therefore, when infection with this group of organisms is suspected, order CTB / Mycobacteria and *Nocardia* Culture.

Shipping Instructions

Specimen should arrive within 24 hours of collection.

Necessary Information

Specimen source is required.

Specimen Required

**Specimen Type:** Body fluid

**Container/Tube:** Sterile container

**Specimen Volume:** Entire collection

**Specimen Type:** Bone marrow

**Container/Tube:** Sterile container

**Specimen Volume:** Entire collection

**Specimen Type:** Fresh tissue

**Container/Tube:** Sterile container

**Specimen Volume:** Pea sized

**Collection Instructions:** Tissue should be placed in small amount of sterile saline or sterile water.

**Specimen Type:** Respiratory specimen

**Container/Tube:** Sterile container

**Specimen Volume:** Entire collection

**Specimen Type:** Swab

**Sources:** Dermal, ear, mouth, ocular, throat, or wound

**Container/Tube:** Culture transport swab (noncharcoal) Culturette

**Specimen Volume:** Swab

**Collection Instructions:**
1. Before collecting specimen, wipe away any excessive amount of secretion and discharge, if appropriate.

2. Obtain secretions or fluid from source with sterile swab.

3. If smear and culture are requested or both a bacterial culture and fungal culture are requested, collect a second swab to maximize test sensitivity.

**Specimen Type:** Urine

**Container/Tube:** Sterile container

**Specimen Volume:** 2 mL

**Collection Instructions:** Collect a random urine specimen.

**Forms**

If not ordering electronically, complete, print, and send a Microbiology Test Request (T244) with the specimen.

**Specimen Minimum Volume**

- Bone Marrow or Body Fluid: 1 mL
- Respiratory Specimen: 1.5 mL
- Tissue: pea-sized piece

**Reject Due To**

| Other | Blood or fixed tissue; specimen in viral transport (including but not limited to M4, M5, BD viral transport media, thioglycolate broth), nasal swab, wood shaft or charcoal swab, catheter tips, petri dish, stool |

**Specimen Stability Information**

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Temperature</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Varies</td>
<td>Refrigerated (preferred)</td>
<td>7 days</td>
</tr>
<tr>
<td></td>
<td>Ambient</td>
<td>7 days</td>
</tr>
</tbody>
</table>

**Clinical and Interpretive**

**Clinical Information**

Many fungi in the environment cause disease in immunocompromised human hosts. Accordingly, the range of potential pathogenic fungi has increased as the number of immunosuppressed individuals (eg, persons with AIDS, patients receiving chemotherapy or transplant rejection therapy) has increased. Isolation and identification of the infecting fungus in the clinical laboratory can help guide patient care.

**Reference Values**

Negative

If positive, fungus will be identified.
Interpretation
Positive cultures of yeast and filamentous fungi are reported with the organism identification.

The clinician must determine whether or not the presence of an organism is significant. A final negative report is issued after 24 days of incubation.

Cautions
For optimal recovery of organisms, sufficient specimen should be transported within 24 hours of collection.

Fungi can be pathogens, colonizers, or contaminants. Correlation of the patient clinical condition with culture results is necessary.

Clinical Reference

Performance

Method Description
Specimens are cultured on selective fungal media (eg, inhibitory mold agar and brain heart infusion blood agar with chloramphenicol and gentamicin). Respiratory sources also are cultured on brain heart infusion agar with chloramphenicol, gentamicin, and cycloheximide. Cultures are incubated for 24 days at 30 degrees C.


PDF Report
No

Day(s) and Time(s) Test Performed
Monday through Sunday; Continuously

Analytic Time
24 days/Positive cultures reported when detected. Preliminary negative report generated at 7 and 14 days

Maximum Laboratory Time
35 days
Specimen Retention Time
Raw specimen saved 7 days

Performing Laboratory Location
Rochester

Fees and Codes

Fees
- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact Customer Service.

Test Classification
This test uses a standard method. Its performance characteristics were determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

CPT Code Information
87102-Fungal culture, routine
87106-Yeast identification panel D (if appropriate)
87106-Id MALDI-TOF Mass Spec Yeast (if appropriate)
87107-Id MALDI-TOF Mass Spec Fungi (if appropriate)
87107-Fungal identification panel A (if appropriate)
87107-Fungal identification panel B (if appropriate)
87107-Yeast identification panel A (if appropriate)
87107-Yeast identification panel B (if appropriate)
87150 x 2-Identification Histoplasma/Blastomyces, PCR (if appropriate)
87153-D2 fungal sequencing identification (if appropriate)
87176-Tissue processing (if appropriate)

LOINC® Information

<table>
<thead>
<tr>
<th>Test ID</th>
<th>Test Order Name</th>
<th>Order LOINC Value</th>
</tr>
</thead>
<tbody>
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<td>FGEN</td>
<td>Fungal Culture, Routine</td>
<td>580-1</td>
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<tr>
<td>Result ID</td>
<td>Test Result Name</td>
<td>Result LOINC Value</td>
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