

Culture Referred for Identification, Fungus

# **Overview**

### **Useful For**

Identification of pure isolates of filamentous fungi and yeast

#### **Reflex Tests**

Test Id	Reporting Name	Available Separately	Always Performed
D2F	D2 Fungal Sequencing	No, (Bill Only)	No
	Identification		
FUNA	Fungal Ident Panel A	No, (Bill Only)	No
FUNB	Fungal Ident Panel B	No, (Bill Only)	No
ITSF	ITS Fungal Sequencing	No, (Bill Only)	No
RMALF	Id MALDI-TOF Mass Spec	No, (Bill Only)	No
	Fungi		
RMALY	Id MALDI-TOF Mass Spec	No, (Bill Only)	No
	Yeast		

# **Testing Algorithm**

When this test is ordered, the reflex tests may be performed and charged. All fungal organisms submitted will be identified and billed as appropriate.

## **Special Instructions**

• Infectious Specimen Shipping Guidelines

### **Method Name**

Macroscopic/Microscopic/D2 and Internal Transcribed Spacer (ITS) rDNA Gene Sequencing/Matrix-Assisted Laser Desorption/Ionization-Time of Flight Mass Spectrometry (MALDI-TOF MS)

Dimorphic Pathogen Identification Confirmation: D2 and ITS rDNA Gene Sequencing/MALDI-TOF MS

### **NY State Available**

Yes

# **Specimen**

# **Specimen Type**

Varies

# **Shipping Instructions**

1. See Infectious Specimen Shipping Guidelines for shipping information.



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2. Place specimen in a large infectious container (T146) and label as an etiologic agent/infectious substance, if appropriate.

## **Necessary Information**

- 1. Specimen source (anatomic body site) is required.
- 2. Isolate description is required: Gram stain reaction, morphology, tests performed.

### **Specimen Required**

Specimen Type: Yeast or filamentous fungus in pure culture

**Supplies:** Infectious Container, Large (T146)

**Container/Tube:** 

**Preferred:** Sabouraud dextrose agar slant **Acceptable:** Inhibitory mold agar slant **Specimen Volume:** Isolated mold or yeast

Collection Instructions: Yeast or filamentous fungus must be in pure culture, actively growing. Do not submit mixed

cultures.

#### **Forms**

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

## **Reject Due To**

Agar plate	Reject

# **Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
Varies	Ambient (preferred)		
	Refrigerated		

# Clinical & Interpretive

### **Clinical Information**

Fida M, Wengenack NL, Theel ES. Mycology: General approaches for direct and indirect detection and identification of fungi. In: Carroll KC, Pfaller MA, Pritt BS, et al. Manual of Clinical Microbiology. 13th ed. ASM Press; 2023

# **Reference Values**

Not applicable

### Interpretation

Genus and species are reported on fungal isolates whenever possible.

#### **Cautions**

If the organism is received in mixed culture or contaminated, the report may be delayed or identification may not be possible.



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### **Clinical Reference**

Ashbee HR: General approaches for direction detection and identification of fungi. In: Carroll KC, Pfaller MA, Landry ML, et al, eds. Manual of Clinical Microbiology. 12th ed. Vol 1. ASM Press; 2019:2035-2055

## **Performance**

### **Method Description**

Identification of fungi is based on colonial and microscopic morphology, matrix-assisted laser desorption/ionization time-of-flight (MALDI-TOF) mass spectrometry and/or D2 and internal transcribed spacer (ITS) rDNA gene sequencing, as applicable. (Dhiman N, Hall L, Wohlfiel SL, Buckwalter SP, Wengenack NL. Performance and cost analysis of matrix-assisted laser desorption ionization time of flight mass spectrometry for routine identification of yeast. J Clin Microbiol. 2011;49[4]:1614-1616; Hall L, Wohlfiel SL, Roberts GD. Experience with the MicroSeq D2 large-subunit ribosomal DNA sequencing kit for identification of filamentous fungi encountered in the clinical laboratory. J Clin Microbiol. 2004;42[2]:622-626; Theel ES, Schmidt BH, Hall L, et al. Formic acid-based direct, on-plate testing of yeast and *Corynebacterium* species by Bruker Biotyper matrix-assisted laser desorption ionization-time of flight mass spectrometry. J Clin Microbiol. 2012;50[9]:3093-3095; Theel ES, Hall L, Mandrekar J, Wengenack NL. Dermatophyte identification using matrix-assisted laser desorption ionization-time of flight mass spectrometry. J Clin Microbiol. 2011;49[12]:4067-4071; General approaches for direct and indirect detection and identification of fungi. In: Carroll KC, Pfaller MA, Pritt BS, et al. Manual of Clinical Microbiology. 13th ed. ASM Press; 2023)

### **PDF Report**

No

## Day(s) Performed

Monday through Saturday

### Report Available

2 to 35 days

### **Specimen Retention Time**

30 days after identification

# **Performing Laboratory Location**

Mayo Clinic Laboratories - Rochester Main Campus

### Fees & Codes

# Fees

- Authorized users can sign in to <u>Test Prices</u> for detailed fee information.
- Clients without access to Test Prices can contact <u>Customer Service</u> 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact <u>Customer Service</u>.



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### **Test Classification**

This test has been cleared, approved, or is exempt by the US Food and Drug Administration and is used per manufacturer's instructions. Performance characteristics were verified by Mayo Clinic in a manner consistent with CLIA requirements.

### **CPT Code Information**

87107-Culture, fungi, definitive identification

87106-Culture, fungi, definitive identification, each organism; yeast (if appropriate)

87106-Id MALDI-TOF Mass Spec Yeast (if appropriate)

87107-Id MALDI-TOF Mass Spec Fungi (if appropriate)

87107-Culture, fungi, definitive identification, each organism; mold (if appropriate)

87107-Fungal identification Panel A (if appropriate)

87107-Fungal identification Panel B (if appropriate)

87153-D2 fungal sequencing Identification (if appropriate)

87153-ITS Fungal Sequencing (if appropriate)

### **LOINC®** Information

Test ID	Test Order Name	Order LOINC® Value
FUNID	Culture Referred for ID, Fungus	42804-5

Result ID	Test Result Name	Result LOINC® Value
FUNID	Culture Referred for ID, Fungus	In Process