

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 Identification	No, (Bill Only)	No
FUNA	Fungal Ident Panel A	No, (Bill Only)	No
FUNB	Fungal Ident Panel B	No, (Bill Only)	No
LCCI	Ident Rapid PCR Coccidioides	No, (Bill Only)	No
LCHB	Id, Histoplasma/Blastomyces PCR	No, (Bill Only)	No
RMALF	Id MALDI-TOF Mass Spec Fungi	No, (Bill Only)	No
RMALY	Id MALDI-TOF Mass Spec Yeast	No, (Bill Only)	No
LCCA	Id, Candida auris Rapid PCR	No, (Bill Only)	No

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 rDNA Gene Sequencing/Real-Time Polymerase Chain Reaction (rtPCR)/Matrix-Assisted Laser Desorption/Ionization-Time of Flight Mass Spectrometry (MALDI-TOF MS)  
Dimorphic Pathogen Identification Confirmation: D2 rDNA Gene Sequencing/rtPCR/MALDI-TOF MS

NY State Available

Yes

Specimen

Specimen Type

Varies

Shipping Instructions

1. See [Infectious Specimen Shipping Guidelines](#) in Special Instructions for shipping information.
2. Place specimen in a large infectious container (T146) and label as an etiologic agent/infectious substance, if appropriate.

Necessary Information

1. Specimen source is required.
2. Isolate description is required: Gram stain reaction, morphology, tests performed.

Specimen Required

**Specimen Type:** Organism 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:** Organism 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
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Specimen Stability Information

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

Clinical & Interpretive

Clinical Information

Organisms are referred for identification or to confirm an identification made elsewhere. This may provide helpful information regarding the significance of the organism, its role in the disease process, and its possible origin.

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.

**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, laboratory-developed real-time polymerase chain reaction (PCR) assays and/or D2 rDNA gene sequencing, as applicable.(Babady NE, Buckwalter SP, Hall L, Le Febre KM, Binnicker MJ, Wengenack NL: Detection of *Blastomyces dermatitidis* and *Histoplasma capsulatum* from culture isolates and clinical specimens by use of real-time PCR. J Clin Microbiol. 2011 Sep;49[9]:3204-3208; Binnicker MJ, Buckwalter SP, Eisberner JJ, et al: Detection of *Coccidioides* species in clinical specimens by real-time PCR. J Clin Microbiol. 2007 Jan;45[1]:173-178; 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 Apr;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 Feb;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 Sep;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 Dec;49[12]:4067-4071)

**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 [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 account representative. For assistance, contact [Customer Service](#).

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)
- 87150-Identification rapid PCR coccidioides (if appropriate)
- 87150 x 2-Identification Histoplasma/Blastomyces, PCR (if appropriate)
- 87153-D2 fungal sequencing Identification (if appropriate)
- 87150-Id, Candida auris Rapid PCR (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