

## Overview

### Useful For

Recovery and identification of dermatophyte fungi from hair, skin, and nail infected specimens

### Testing Algorithm

When this test is ordered, the reflex test may be performed at an additional charge.

### Reflex Tests

Test Id	Reporting Name	Available Separately	Always Performed
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
D2F	D2 Fungal Sequencing Identification	No, (Bill Only)	No

### Method Name

Plated to Mycobiotic Agar

### NY State Available

Yes

## Specimen

### Specimen Type

Varies

### Shipping Instructions

Specimen must arrive within 7 days of collection.

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Transport in petri dishes may result in loss of specimen. Securely tape petri dishes closed for transport.

**Necessary Information**

**Specimen source is required.**

**Specimen Required****Note:**

-Aseptic techniques should be used when collecting specimens to minimize contamination.

-For optimal recovery of organisms, sufficient clinical material should be collected.

**Specimen Type:** Hair

**Container/Tube:** Dry sterile container or specimen collection envelope

**Specimen Volume:** 10 to 12

**Collection Instructions:** Using forceps collect affected hairs with base of the shaft intact.

**Specimen Type:** Nails

**Container/Tube:** Dry sterile container or specimen collection envelope

**Specimen Volume:** Entire collection

**Collection Instructions:**

1. Wipe the nail with 70% alcohol using gauze (not cotton).
2. Clip away a generous portion of the affected area.
3. Collect material or debris from under the nail.

**Specimen Type:** Skin

**Container/Tube:** Dry sterile container or specimen collection envelope

**Specimen Volume:** Entire specimen

**Collection Instructions:**

1. Cleanse the affected area with 70% alcohol.
2. Gently scrape the surface of the skin at the active margin of the lesion, being careful to not draw blood.

**Forms**

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

**Reject Due To**

Charcoal, wooden shaft, or dry swab    Reject  
Agar plate

**Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
Varies	Ambient (preferred)	7 days	

**Clinical & Interpretive****Clinical Information**

Fungal infections of keratinized tissues (hair, skin, nails) can be caused by dermatophytic fungi belonging to the genera *Epidermophyton*, *Microsporum*, and *Trichophyton*. Opportunistic superficial infections resembling dermatophytoses may be caused by yeasts or by unrelated filamentous fungi that are normally saprobes or plant pathogens. Dermatophytes are usually unable to penetrate deeper tissues. Infection may range from mild to severe.

**Reference Values**

Negative

If positive, fungus or yeast will be identified.

**Interpretation**

Positive cultures are reported with organism identification.

Negative reports are issued after 30 days incubation.

**Cautions**

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No significant cautionary statements

**Clinical Reference**

Borman AM, Summerbell RC: *Trichophyton, Microsporum, Epidermophyton* and agents of superficial mycoses. In: Carroll KC, Pfaller MA, Landry ML, et al. Manual of Clinical Microbiology. 12th ed. ASM Press; 2019:2208-2233

**Performance****Method Description**

Specimens are plated on mycobiologic agar, which contains chloramphenicol and cyclohexamide to inhibit bacterial and saprobic fungal contamination. Cultures are incubated at 30 degrees C for 30 days. Identification of dermatophyte species is based on colony and microscopic morphology and polymerase chain-reaction (PCR), DNA sequencing or matrix-assisted laser desorption/ionization time-of-flight (MALDI-TOF) mass spectrometry, when applicable. (Hall L, Wohlfiel S, 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, 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

**Performing Laboratory Location**

Rochester

**Fees & Codes****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**

87101-Fungal culture, dermal

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

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

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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
FDERM	Fungal Culture, Dermal	580-1

  

Result ID	Reporting Name	LOINC®
FDERM	Fungal Culture, Dermal	580-1