



**MINERVA LABS**

# Nail Fungal Pathogen Panel

**Precision Diagnostics for Comprehensive Fungal Infection Management**



Recognized for  
Quality and Excellence

**COLA**  
Accredited Laboratory



Clinical  
Laboratory  
Improvements  
Amendments

**Minerva Labs**

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# Introduction to Nail Fungal Infections



Fungal nail infections (onychomycosis) are common and often challenging to diagnose and treat. Early and precise identification of the causative fungal species is essential to guide effective treatment and prevent recurrence.

## Key Facts:



### Common Worldwide:

More frequent in warm climates.



### Age Factor:

Higher risk in older adults after age 60.



### Treatment:

Often underdiagnosed and untreated.

## Minerva Labs' Role



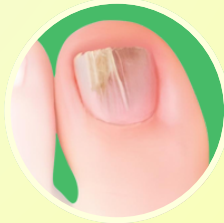
Our **Nail Fungal Panel** uses state-of-the-art PCR technology to identify fungal pathogens with high sensitivity and specificity, providing actionable results to healthcare providers.

# Symptoms and Risk Factors

## Common Symptoms:



**Thickened, brittle, or discolored nails.**



**Separation of the nail from the nail bed.**



**Foul odor from the affected area.**



## Risk Factors:



**Diabetes or compromised immunity.**



**Prolonged use of closed-toe shoes.**



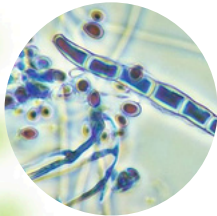
**Exposure to damp environments, such as swimming pools.**





# Pathogens Detected

## Dermatophytes (Common Nail Fungal Causes)



**Trichophyton  
rubrum**



**Trichophyton  
mentagrophytes**

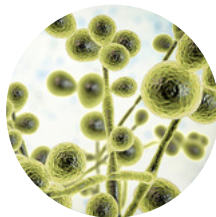


**Epidermophyton  
floccosum**

## Yeasts Pathogens:



**Candida  
albicans**

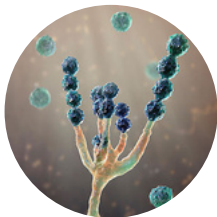


**Candida  
glabrata**

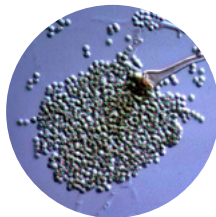


**Candida  
tropicalis**

## Molds Pathogens:



**Scopulariopsis  
brevicaulis**



**Aspergillus  
species**



## Resistance Genes Detected:

- Antifungal resistance markers to guide therapy.

# Benefits of Minerva Labs' Nail Fungal Panel



## Why Choose Minerva Labs for Nail Fungal Diagnostics?



**Comprehensive Detection:** Identifies dermatophytes, yeasts, and molds.



**Antifungal Resistance Testing:** Guides clinicians in selecting effective treatments.



**Rapid Turnaround:** Ensures timely clinical decisions.



**Actionable Insights:** Includes resistance profiles and treatment recommendations.



# Testing Procedure

## Sample Collection Guidelines:



### Step 1

Clip a small portion of the infected nail or collect debris from under the nail.



### Step 2

Place the sample in a sterile container.



## Specimen Transport:



### Step 3

Label the container with the patient's **name**, **DOB**, and collection **date**.



### Step 4

Store at **2–8°C** if there's a delay in transport.



## Turnaround Time:

- Results available within **24–48 hours** after we receive your sample.

# Antibiotic Stewardship Program



## Our Commitment

Minerva Labs promotes responsible antibiotic use to combat resistance and improve patient outcomes.

## Program Key Features



**Detects resistance**  
markers for  
personalized therapy.



Reduces  
**inappropriate**  
**antibiotic** use.



**Supports clinicians**  
with evidence-based  
recommendations

## Benefits



**Improved** patient  
recovery rates.



**Reduced** recurrence and  
resistance development





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Clinical  
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Improvements  
Amendments



**MINERVA LABS**

## Why Minerva Labs?

- ✓ **COLA** and **CLIA**-accredited laboratory
- ✓ **Unmatched accuracy** and rapid results.
- ✓ **Comprehensive reports** tailored to clinicians' needs.

## Contact Information:

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