

MINERVA LABS

Nail Fungal Pathogen Panel

Precision Diagnostics for Comprehensive Fungal Infection Management



CAP
ACCREDITED ✓
COLLEGE of AMERICAN PATHOLOGISTS



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.



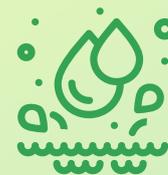
Risk Factors:



Diabetes or compromised immunity.



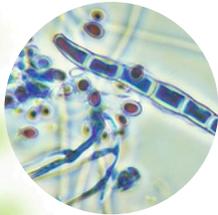
Prolonged use of closed-toe shoes.



Exposure to damp environments, such as swimming pools.

Pathogens Detected

Dermatophytes (Common Nail Fungal Causes)



**Trichophyton
rubrum**



**Trichophyton
mentagrophytes**

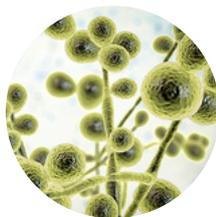


**Epidermophyton
floccosum**

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**.

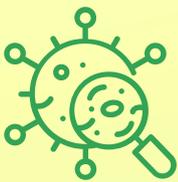
Antibiotic Stewardship Program



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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Why Minerva Labs?

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

Contact Information:

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