



NAIL FUNGAL PCR TESTING

Precision Molecular Detection of Onychomycosis



Accurate. Rapid. Treatment-Ready.

Onychomycosis affects an estimated 14% of adults in the United States, and its prevalence rises sharply in patients with diabetes, peripheral vascular disease, or advancing age. Conventional KOH microscopy and fungal culture often delay care by weeks and miss up to 40% of true infections. Medisure Labs offers a real-time PCR Nail Pathogen Panel that identifies dermatophytes and non-dermatophyte molds directly from a nail clipping—so your treatment plan is grounded in molecular evidence, not guesswork.

Why Choose Medisure Labs for Nail Fungal PCR Testing?



High Analytical Sensitivity

PCR detects organism DNA below the threshold of culture, including non-viable hyphae from prior treatment.



Mixed-Infection Detection

Identifies co-occurring dermatophytes and non-dermatophyte molds in a single assay



24–48 Hour Turnaround

Results delivered to your physician portal within one to two business days of specimen receipt.



Physician-First Workflow

Pre-paid kits, courier pickup options, EMR-friendly reporting, and a dedicated account representative.



Did You Know?

- Toenail infections are 7× more common than fingernail infections due to slower growth and reduced peripheral circulation.
- Nearly half of clinically suspected onychomycosis cases are misdiagnosed when relying on visual exam alone.
- Dermatophyte spores can persist on shoes, clippers, and shower surfaces for months, driving reinfection after therapy.



Clinical Insight

Half of nails referred as 'fungal' aren't. The other half hide a non-dermatophyte mold that shrugs off terbinafine. Our PCR names the organism in 24-48 hours, so twelve weeks of LFT monitoring isn't wasted on an infection you were never treating.



Comprehensive Nail Pathogen Panel

Our panel screens dermatophytes and non-dermatophyte molds.

PATHOGENS & MARKERS DETECTED

Dermatophytes	Non-Dermatophyte Molds	Yeasts
✓ <i>T. rubrum</i> ✓ <i>T. mentagrophytes/interdigitale</i> ✓ <i>Epidermophyton floccosum</i>	✓ <i>Fusarium solani</i> ✓ <i>Neoscytalidium dimidiatum</i> ✓ <i>Scopulariopsis brevicaulis</i> ✓ <i>Aspergillus</i> spp.	✓ <i>Candida albicans</i> ✓ <i>Candida parapsilosis</i>

Specimen & Ordering



SPECIMEN REQUIREMENTS

Nail clipping (minimum 3–5 mm fragments) from the most affected nail; include subungual debris when available.



HOW TO ORDER

Turnaround: 24–48 hours from specimen receipt. Request a Medisure Labs collection kit from your account representative. Complete the requisition, package the clipping in the supplied transport sleeve, and return via prepaid courier. Results post to your secure provider portal.

Who Benefits from This Test



Dermatologists & Podiatrists

Confirm onychomycosis before committing patients to prolonged oral antifungal therapy.



Primary Care Physicians

Differentiate fungal infection from psoriasis, trauma, or lichen planus.



Diabetic & Immunocompromised Patients

Detect infection early and reduce risk of secondary cellulitis or ulceration.



Patients with Treatment Failure

Identify resistant or non-dermatophyte organisms that may not respond to first-line agents.

Who Should Get Tested

Suspected Onychomycosis Before Oral Antifungal Therapy

Confirm fungal etiology before committing patients to 6–12 weeks of terbinafine or itraconazole and LFT monitoring.

Negative or Inconclusive KOH and Culture

Clinical suspicion remains high despite false-negative conventional testing.

Treatment Failure After First-Line Antifungals

Identify resistant dermatophytes, non-dermatophyte molds, or mixed infections behind persistent disease.

Differential Diagnosis of Nail Dystrophy

Distinguish fungal infection from psoriasis, lichen planus, eczema, or post-traumatic dystrophy.

Immunocompromised Patients with Nail Abnormalities

Chemotherapy, transplant, or HIV patients—rule out opportunistic molds and yeasts.

Partner with Medisure Labs

Partner with Medisure Labs to bring molecular precision to nail infection care. Our specialists are ready to set up your account and ship kits in as little as 24 hours.

CONTACT & ORDERING INFORMATION

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