

Quantitative Polymerase Chain Reaction - qPCR

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PREMIER MEDICAL LAB

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We offer a next-generation, real-time quantitative PCR based assay that identifies organisms associated with Onychomycosis

Open Array Format with 18(x3)
Assays and 48 Samples



PREMIER MEDICAL LAB

• FAST • ACCURATE • CONVENIENT • RELIABLE

We offer a next generation
Real-time qPCR



Toenail Fungus Panel
(Onychomycosis)

We provide:

- Specimen **Collection**
- **Next Day** results
- **Easy Access** via web portal

Onychomycosis

❖ The most common nail disorder

- 50% of all nail problems
- If neglected can lead to systemic and/or opportunistic infections

❖ Requires long-term therapy

- Expensive
- Potential side effects of oral antifungals

❖ New and emerging therapies are genus/species specific

❖ Precise and timely infection identification

- Improves clinical outcome
- Improves quality of life
- Reduces overall treatment costs
- Reduces hospitalizations

Organisms Included in PML TFI Assay

- Acremonium strictum
- Alternaria
- Aspergillus fumigatus
- Aspergillus niger
- Aspergillus terreus
- Aspergillus versicolor
- Candida albicans
- Candida parapsilosis
- Curvularia lunata

Epidermophyton floccosum •
Fusarium solani •
Geotrichum candidum •
Microsporium audouinii •
Microsporium canis •
Microsporium gypseum •
Microsporium nanum •
Neofusicoccum mangiferae •
Sarcoptes scabiei •

- Scopulariopsis brevicaulis
- Scytalidium dimidiatum
- Trichophyton interdigitale (T.mentagrophytes)
- Trichophyton rubrum
- Trichophyton soudanense
- Trichophyton violaceum
- Trichophyton tonsurans
- Trichosporon beigelii
- Trichosporon mucoides

Benefits of qPCR vs Traditional Methods

- **Full report in 24-48 hours** vs up to 6 weeks in traditional fungal culture
- **Removes "human factor"** in organism identification
- Does not miss **slow growing or hard to culture fungi**
- **Greater precision** in identification and characterization of Fungal Infections
- **Not limited to the number of pathogens** identified per sample
- Improves **clinical outcome**
- **Clear and easy** to interpret reporting including current **treatment options for each organism identified**

