

Nail Biopsy for Pathology/Histology and PCR Analysis

Test:	Higher Sensitivity panel of nail dystrophy/fungus. Routine PAS panel for nail dystrophy/fungus. Nail Neoplasia panels. Nail PCR.
Submission Criteria:	Specimen: <u>Nail clip and excisional biopsies, nail removals:</u> at least 6 mm of total tissue, dry or in formalin. Formalin submission is preferable when examination of nail bed or matrix is desired. <u>Nail punch biopsies:</u> 2-3 mm punch in formalin. The area of the nail to be sampled will depend on the presumptive diagnosis since the different types of onychomycoses and paronychia vary in pathogen localization. <u>Container:</u> Sterile specimen bags or tubes
Storage and Stability:	7 days at 2-8C 14 days at -70C
Rejection Criteria:	Rejection criteria include but are not limited to: <ol style="list-style-type: none">1. Mismatched requisitions2. Specimens without <u>two</u> patient identifiers3. Specimens submitted without approval
Turnaround Time:	Histology: 3 Days PCR: 3 Days Histology w/ PCR: 6 Days
Clinical Significance:	Diagnosis and prognosis of clinically ambiguous nail lesions or dystrophies.
Reference Ranges:	Not detected for all targets.

Method: Histology Panels are comprised of one or more of the following:
Hematoxylin and Eosin Stain
Periodic Acid- Schiff Stain
Grocott's Methenamine Silver Stain
Gram's Stain
Fontana Masson Stain
Immunohistochemical Staining

PCR Panels are comprised of the following targets:

Acremonium strictum, Alternaria spp., Aspergillus fumigatus, Aspergillus niger, Asperillus terreus, Aspergillus versicolor, Candida albicans, Candida parapsilosis, Epidermophyton floccosum, Fusarium solani, Geotrichium candidum, Microsporon, audouinii, Microsporum, canis, Microsporum gypseum, Microsporum nanum, Natrassia magiferae, Pichia onychis, Sarcoptes scabiei, Scopulariopsis brevicaulis, Trichophyton interdigitale, Trichophyton rubrum, Trichophyton soudanense, Trichophyton tonsurans, Trichophyton violaceum, Trichosporon beigelii, Trichosporon mucoides.

Platform: ThermoFisher QuantStudio™ 12K Flex OpenArray™

CPT Codes: Biopsy: 11755

Histopathology: 88300, 88302, 88304, 88305, 88307, 88309, 88311, 88213, 88313, 88314, 88319, 88321, 88325, 88342 (CPT codes are assigned by the pathologist when the case is complete)

PCR - 87798, 87801 (x3), 87500, 87653, 87481, 87640, 87651, 87481, 88363