

Mycology Specimen Selection by Organism

Superficial Fungal Infections

<i>Fungus</i>	<i>Specimen Source</i>
Dermatophytes	Hair, nails, skin

Systemic Fungal Infections

<i>Fungus</i>	<i>Specimen Source</i>
Aspergillus spp.	Respiratory secretions, lung, skin, bone, oropharyngeal ulcers, prostate, tissue biopsy, nasal sinus
Blastomyces dermatitidis	Respiratory secretions, lung, skin, bone, oropharyngeal ulcers, prostate, tissue biopsy, urine
Candida spp.	Respiratory secretions, blood, stool, transtracheal aspiration, CSF, bone, peritoneal fluid, urine, skin
Coccidioides immitis	Respiratory secretions, lung, skin, bone, CSF, synovial fluid, urine, tissue biopsy, blood
Cryptococcus neoformans	Respiratory secretions, lung, skin, bone, CSF, synovial fluid, urine, blood
Fusarium spp.	Skin, respiratory secretions, eye, nasal sinus
Histoplasma capsulatum	Respiratory secretions, lung, bone marrow, blood, urine, skin, CSF, eye, pleural fluid, liver, tissue biopsy, lymph node
Mucor spp.	Respiratory secretions, lung, skin, nose, brain, stool, wounds, ear, exudates, eye, nasal sinus
Nocardia spp.	Respiratory secretions, lung, skin, blood, brain, conjunctiva, bone, CSF
Paracoccidioides brasiliensis	Respiratory secretions, lung, biopsy, pus, skin
Rhizopus spp.	Respiratory secretions, skin, nose, brain, stool, eye, wounds, nasal sinus
Scedosporium apiospermum (<i>Pseudallescheria boydii</i>)	Respiratory secretions, skin, eye, bone, brain, CSF, nasal sinus
Sporothrix schenckii	Respiratory secretions, skin, subcutaneous tissue, sinuses, blood, bone marrow, CSF, synovial fluid, lymph nodes

Mycology Specimen Collection & Transport by Source

<i>Specimen Source</i>	<i>Collection Procedure</i>	<i>Optimum Transport Procedure</i>
Blood	8 mL in a yellow top (ACD) tube or Isolator tube.	Room Temperature
Bone Marrow	5-10 mL in a green top (Heparin) tube.	Room Temperature
CSF	Sterile container.	2-8° C
Eye	Corneal scrapings, intraocular fluid or biopsy.	2-8° C
Hair	Select infected area. Remove at least 10 hairs. Entire hair shaft is necessary.	Room Temperature Place hairs between two clean glass slides or in a clean envelope labeled with the patient's data.
Nails	Clean nail with 70% alcohol, scrape away the outer portion and obtain scrapings from the deeper infected areas.	Room Temperature
Nose	Necrotic material or biopsy.	2-8° C
Respiratory	Induced sputum, tracheal aspirate, lung biopsy, bronchoscopy specimens.	2-8° C
Skin and interspaces	Clean skin with 70% alcohol. Scrape the entire lesion(s) and both sides of interspaces.	Room Temperature
Tissue Biopsy	Collect tissue aseptically from the center and edge of the lesion. Place specimens between moist gauze squares, add a small amount of sterile water or saline to keep tissue from drying out.	2-8° C
Urine	Catheterized specimen is preferred. Early morning clean-catch is also acceptable.	2-8° C