



# **Reditus Laboratories**

Manual of Services

November 2020

## **Mission Statement**

Reditus Laboratories understands that a person is behind every specimen we test. To ensure our customers receive the testing they deserve, we use cutting edge processes to provide quality, reliable, and timely results to our patients and providers.

## **Introduction**

The Laboratory has a CLIA certificate (License No. 14D2174985) and is currently seeking accreditation through the College of American Pathologists (CAP).

## **Authorization for submitting specimens for testing**

Samples or specimens that are submitted to the laboratory without proper authorization will not be tested. Lab staff will contact the submitter and determine if the sample/specimen will be returned or destroyed.

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## General Specimen/Sample Requirements and Information

It is vital to ensure that the quality of samples is not compromised, the etiological agents remain viable, and the samples do not endanger the safety of those delivering or receiving them. The Laboratory is required to reject any sample that is leaking or otherwise unsafe. The Laboratory will be able to complete testing of samples without delay if the submitter:

- Provides all the information requested on the appropriate submission form,
- Sends specimens in the appropriate media and container type,
- Avoids sending specimens in/on inhibitory media,
- Packages sample containers in a leak-proof inner container and ensures that caps are tight to prevent leakage,
- Observes special temperature requirements,
- Avoids shipping over the weekend, except in emergency situations or when prior arrangements have been made with the Laboratory.
- Conforms to current U.S. Postal Service regulations when shipping by U.S. mail
  - *Contact your local post office for more information on these regulations.*
- Conforms to current U.S. Department of Transportation regulations when shipping by courier or other means.

## Reditus Laboratories – Hours and Contact Information

Reditus Laboratories has two primary sections which comprise the laboratory, Anatomical Pathology, and Molecular Diagnostics. Samples/specimens are accepted for Anatomical Pathology Monday-Friday from 8:00am-4:30pm Central Standard Time (CST). The Molecular Diagnostic section is operates 24 hours per day Monday – Sunday and accepts specimens for SARS-CoV-2 during all hours of operation.

### **Anatomical Pathology Section**                      **1.800.736.0002**

1805 Riverway Drive, Suite A

Pekin, IL 61554

[www.Redituslabs.com](http://www.Redituslabs.com)

### **Molecular Diagnostics Section**                      **1.800.736.0002**

1805 Riverway Drive, Suite A

Pekin, IL 61554

[www.Redituslabs.com](http://www.Redituslabs.com)

## **Fine Needle Aspirates for Cytology Analysis**

*IMPORTANT: If gout is suspected, please follow instructions for Crystal Analysis*

<b>Test Name:</b>	Aspiration Tumor (Ganglion/Cyst) Analysis
<b>Method Name:</b>	Panels are comprised of one or more of the following: Smear and cell block preparations Hematoxylin and Eosin Stain Periodic Acid – Schiff Stain Grocott’s Methenamine Silver Stain Gram’s Stain
<b>Results:</b>	Differential diagnoses include, but are not limited to: cysts, ganglion cysts, giant cell tumors, lymphoma, nodule, sarcoma
<b>Reference Range:</b>	Not Detected for all targets
<b>Clinical Significance:</b>	For cellular analysis of fluid from an inflamed area or mass.
<b>Submission Criteria:</b>	Syringe drawn fluid flushed into formalin. Do not submit needles. <b>IMPORTANT: If gout is suspected, please follow instructions for Crystal Analysis.</b>
<b>Rejection Criteria:</b>	Rejection criteria include but are not limited to those with: 1. Mismatched requisitions 2. Specimens without TWO patient identifiers 5. Specimens submitted without approval
<b>Authorization:</b>	Diagnostic testing can only be performed with approval from an authorized provider/agency.
<b>Turn Around Time:</b>	3 Days

## Instructions for Aspirate Submission

### General Information

Always confirm patient identity and obtain a signed patient consent for treatment prior to biopsy. Specimens may not be adequate for evaluation when only trace amounts of aspirated fluid are submitted. Specimens should be preserved in formalin immediately after collection. Biopsies from separate anatomical sites must be submitted in separate specimen containers. Label ALL specimens with patient name, DOB, specimen site, and collection date. Complete ALL fields of the Reditus test requisition form (available at <https://www.redituslabs.com/resources/forms>) Include a patient demographics sheet and insurance information.

### Collection Instructions for Fine Needle Aspirations

1. Wipe the area with 70% alcohol.
2. Local anesthesia may or may not be required.
3. Insert a 21-gauge needle into the soft tissue mass or aspiration area.
4. Draw the syringe plunger back to create a vacuum. Maintain vacuum and redirect the needle into 4 quadrants of the mass.
5. If fluid is obtained, flush fluid into an appropriately labeled formalin jar.
6. If no fluid is obtained, flush the syringe by drawing up formalin and flushing it back into the container.  
*Note: a scant specimen of this nature may not be adequate for evaluation. Inability to aspirate fluid may be an indication for a punch biopsy.*
7. Apply pressure, topical antibiotic and bandage as needed.

## Instructions for Specimen Transport

Place formalin jars into a biohazard bag and place the completed test requisition form, patient demographics and insurance information, in the outside pocket. Ship via FedEx/UPS, in a clinical pak designated for UN3373 Biological, Category B, Substances.

### **Send to:**

Reditus Laboratories  
Attn: Pathology  
1805 Riverway Drive  
Pekin, IL 61554

Pre-paid, self-addressed, shipping supplies are available from Reditus Laboratories by calling 469-498-0221.

**Website:** <https://www.redituslabs.com/>

**Phone:** 469-498-0221

**Fax:** 469-498-0223

**NOTE:** Our pathology lab hours are 8-4:30, Monday-Friday. Specimen turn-around-time excludes weekends. You may be contacted by Reditus Laboratories, or testing may be delayed or rejected, if the above instructions are not followed or the requisition form is not filled out completely. If there are any questions about specimen collection, handling, or shipping please contact the Reditus Laboratories to speak with laboratory personnel.

## Novel Coronavirus (2019-Novel Coronavirus) COVID-19, Molecular

<b>Test Name:</b>	COVID-19 Testing by Real-Time RT-PCR
<b>Method Name:</b>	Real Time Reverse Transcriptase – Polymerase Chain Reaction (PCR) for 2019 Novel Coronavirus
<b>Results:</b>	Detected, Not Detected, Inconclusive
<b>Reference Ranges:</b>	Not Detected for all targets on panel
<b>Clinical Significance:</b>	Viral transmission is person to person through direct contact with upper respiratory droplets containing virus from symptomatic and asymptomatic carriers. Symptoms range from mild to severe including severe acute respiratory distress (ARDS) with fever, cough, and shortness of breath. Some patients have also demonstrated sore throat and gastrointestinal distress and/or renal failure.
<b>Submission Criteria:</b>	Specimen types include nasopharyngeal swabs, oropharyngeal swabs, and nasal swabs collected in a minimum of 1 ml of Viral Transport Media (VTM), Universal Transport Media (UTM), Sterile Saline, or ESwab.
<b>Rejection Criteria:</b>	Rejection criteria include but are not limited to those with: <ol style="list-style-type: none"><li>1. Mismatched requisitions</li><li>2. Specimens without patient identifiers</li><li>3. Specimens stored or shipped incorrectly</li><li>4. Specimens collected using expired reagents</li><li>5. Specimens submitted without approval</li></ol>
<b>Authorization:</b>	Diagnostic testing can only be performed with approval from an authorized provider/agency.
<b>Turn Around Time:</b>	3 Days

## Instructions for COVID-19 Virus Submission

### **General Information**

Nasopharyngeal (NP), Throat (oropharyngeal), mid-turbinate nasal swabs are the preferred samples for the detection of COVID-19 RNA by RT-PCR. The specimen should be collected within 3-7 Days of contact with a confirmed case of COVID-19 or with the onset of COVID-19 symptoms.

Specimens should be collected and stored at 2-8°C (36-46°F). Since heat decreases the stability of virus, specimens must be shipped on multiple cold-packs to maintain consistent temperature during transit. Please be aware that storing specimens at ≤ -70°C (≤ -94°F) is permissible but *requires* that sample(s) be shipped on dry ice to the testing laboratory. Avoid freeze-thawing of specimen(s) as this may also decrease detection of viral RNA in specimens containing low copies of virus.

**Specimens MUST be received at Reditus Laboratories within 72 hours of collection.**

### **Collection Instructions for Nasopharyngeal, Oropharyngeal, and Mid-Turbinate Nasal Swabs**

1. Do not use expired media or swabs. Store Viral Transport Media (VTM), Universal Transport Media (UTM), Sterile Saline, or ESwab as per manufacturers recommendations. Use Dacron- or Nylon-tipped swabs for collecting samples. Flocked swabs are preferred. Examples of acceptable swabs include FLOQSwabs™ (Copan) and BD flocked swabs. **Do not use cotton-tipped, wooden-shafted or calcium alginate swabs, as these contain PCR inhibitors. Samples collected using unapproved materials will be rejected from testing.**
2. Obtain specimens early in the acute phase of illness.
3. **Collecting Nasopharyngeal Swab:** Aseptically remove sterile swab from package and collect the nasopharyngeal swabs by gently inserting swab through each nostril deeply into the nasopharynx (aiming towards the ear).
4. **Collecting Oropharyngeal Swab:** Aseptically remove sterile swab from package and collect epithelial cells by vigorously swabbing the posterior pharynx and tonsil regions of the throat.
5. **Collecting Mid-Turbinate Nasal Swab:** Aseptically remove sterile swab from package. Tilt patient's head back 70 degrees. While gently rotating the swab, insert swab less than one inch (about 2 cm) into nostril (until resistance is met at turbinates). Rotate the swab several times against nasal wall and repeat in other nostril using the same swab.
6. Following collection, insert the swab into the transport medium and break the shaft of the swab at the scored line. **Securely close the container.**
7. Ensure that the patient's name, date-of-birth, and time/date of collection are recorded on the specimen tube along with the name or initials of the individual collecting the sample.
8. Complete all the demographic information on a sample requisition form available at <https://www.redituslabs.com/wp-content/uploads/2020/04/ReditusCovid19Form.pdf> or through the approved electronic submission process
9. Refrigerate the specimen between 2-8°C (36-46°F) and ship or courier the specimen(s) within 72 hours on cold packs. If the specimen was stored at ≤ -70°C (≤ -94°F), the specimen *must* be shipped on dry ice. Avoid freeze-thawing the specimen.
10. The specimen(s) *must* be received at the laboratory **no later than 72 hours from the time of collection.**
  - a. **Avoid shipping specimens over weekends or holidays** as they may not be received at the laboratory and cold-packs will not maintain the required 2-8°C (36-46°F) specimen temperature.
  - b. Ensure that specimens shipped by commercial carrier are shipped with **overnight delivery**. If shipping on a Friday for Saturday delivery, **you must include Saturday Delivery** during shipment or the specimens will not be received until the following non-holiday business day. Failure to receive specimens within 24 hours of shipment will result in specimens being rejected from testing.
11. For any questions pertaining to sample collection, storage, or shipping, please contact the Reditus Laboratories using the below contact information.

### **Instructions for Specimen Transport**

12. **Messenger/Courier by ground transport.** Place specimen(s) into a biohazard labeled bag and seal securely. Place the test requisition(s) on the outside of the biohazard labeled bag. Place the sealed biohazard bag and test requisition(s) inside the shipping container. Place cold packs, which have been frozen for at least 24 hours, in the leak-proof outer container. The shipping container must be rigid, such as a Styrofoam cooler, and labeled with the UN 3373 Biological Substance Category B marking. Close securely.
13. **Commercial carrier by ground/air transport.** Place the specimen(s) inside a biohazard labeled bag and seal securely. Place the test requisition(s) on the outside of the biohazard labeled bag. Place the sealed bag and completed test requisitions(s) inside the outer shipping container. Place cold packs, which have been frozen for at least 24 hours, in the leak-proof outer container. Label the outer shipping container with Reditus Laboratories address listed below. Complete the return address section to include the name of the person shipping the package, business name and address, and a business phone number. The shipping container must include the UN3373 Biological Substance Category B marking.
14. *Ship specimens by overnight delivery* to the attention of Molecular Diagnostics at Reditus laboratories. This can be accomplished by use of local courier, shipping corporations or U.S. Postal Service.
  - a. **If specimens are shipped on a Friday for Saturday delivery, you must include/indicate Saturday delivery** during shipment or the specimens will not be received until the following non-holiday business day. Failure to receive specimens within 24 hours of shipment will result in specimens being rejected from testing.
15. The specimen(s) must be received at the laboratory **no later than** 72 hours *from the time of collection* and 24 hours from the time of shipment. Do not ship specimens over weekends or holidays as they will not be received, and cold-packs will not maintain the required 2-8°C (36-46°F) specimen temperature.

**NOTE:** Testing may be delayed, or specimens may be considered UNSATISFACTORY if the above instructions are not followed or the requisition form is not filled out completely. If there are any questions about specimen collection, handling, or shipping please contact the Reditus Laboratories to speak with laboratory personnel.

Ship specimens by a local courier or overnight by commercial carrier to the designated laboratories indicated below.

**Send to:** Reditus Laboratories  
1805 Riverway Dr  
Pekin, IL 61554

**Phone:** (469) 498-0222

**Website:** <https://www.redituslabs.com/>

## Aspirations for Gout Crystal Analysis

<b>Test Name:</b>	Aspiration Crystal Analysis
<b>Method Name:</b>	Smear preparations and methylene blue staining
<b>Results:</b>	Differential diagnoses include, but are not limited to: cysts, ganglion cysts, giant cell tumors, lymphoma, nodule, sarcoma
<b>Clinical Significance:</b>	For diagnosis of gout through identification of uric acid crystals.
<b>Submission Criteria:</b>	Syringe drawn fluid submitted fresh or in 100% alcohol. Do not submit needles. <b>IMPORTANT: The uric acid crystals characteristic of gout dissolve in formalin or saline. Submit fresh or use only 100% alcohol for preservation.</b>
<b>Rejection Criteria:</b>	Rejection criteria include but are not limited to those with: <ol style="list-style-type: none"><li>1. Mismatched requisitions</li><li>2. Specimens without TWO patient identifiers</li><li>3. Specimens submitted without approval</li></ol>
<b>Authorization:</b>	Diagnostic testing can only be performed with approval from an authorized provider/agency.
<b>Turn Around Time:</b>	3 Days

## Instructions for Crystal Analysis Submission

### General Information

Always confirm patient identity and obtain a signed patient consent for treatment prior to biopsy. Specimens may not be adequate for evaluation when only trace amounts of aspirated fluid are submitted. Biopsies from separate anatomical sites must be submitted in separate specimen containers. Label ALL specimens with patient name, DOB, specimen site, and collection date. Complete ALL fields of the Reditus test requisition form (available at <https://www.redituslabs.com/resources/forms>) Include patient demographics and insurance information.

### Collection Instructions for Fine Needle Aspirations

1. Wipe the area with 70% alcohol.
2. Local anesthesia may or may not be required.
3. Insert a 21-gauge needle into the aspiration area.
4. Draw the syringe plunger back to create a vacuum and allow the syringe to fill with fluid.
5. If fluid is obtained, flush fluid into an appropriately labeled empty or alcohol jar.
6. If no fluid is obtained, flush the syringe by drawing up alcohol and flushing it back into the container.  
*Note: a scant specimen of this nature may not be adequate for evaluation.*
7. Apply pressure, topical antibiotic and bandage as needed.

## Instructions for Specimen Transport

Place formalin jars into a biohazard bag and place the completed test requisition form, patient demographics and insurance information, in the outside pocket. Ship via FedEx/UPS, in a clinical pak designated for UN3373 Biological, Category B, Substances.

### **Send to:**

Reditus Laboratories  
Attn: Pathology  
1805 Riverway Drive  
Pekin, IL 61554

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**Website:** <https://www.redituslabs.com/>

**Phone:** 469-498-0221

**Fax:** 469-498-0223

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## ENFD Small Fiber Neuropathy Analysis

<b>Test Name:</b>	Epidermal Nerve Fiber Density (ENFD) Test
<b>Method Name:</b>	This test panel includes: Hematoxylin and Eosin Staining PGP9.5 Antibody detection by Immunohistochemistry Congo Red Staining for Amyloidosis
<b>Results:</b>	Nerve Fiber Density: Normal, Abnormal, Inconclusive, and measurement of nerve fiber density, in fibers/mm Amyloidosis: Detected, Not Detected
<b>Reference Ranges:</b>	Vary by biopsy site and age and gender of patient. Specific reference ranges are included in final reports.
<b>Clinical Significance:</b>	Used to identify, measure, and monitor small fiber neuropathies
<b>Submission Criteria:</b>	3 mm punch submitted in Zamboni's fixative. Specimen must be shipped with freezer pack and day of collection.
<b>Rejection Criteria:</b>	Rejection criteria include but are not limited to those with: <ol style="list-style-type: none"><li>1. Specimens received in mediums other than Reditus/NovaDX supplied Zamboni's fixative</li><li>2. Specimens received more than 2 days after collection</li><li>3. Mismatched requisitions</li><li>4. Specimens without TWO patient identifiers</li><li>5. Specimens submitted without approval</li></ol>
<b>Authorization:</b>	Diagnostic testing can only be performed with approval from an authorized provider/agency.
<b>Turn Around Time:</b>	10-14 Days

## Instructions for ENFD Submission

### General Information

Always confirm patient identity and obtain a signed patient consent for treatment prior to biopsy.

Biopsies from separate anatomical sites must be submitted in separate specimen containers.

Label ALL specimens with patient name, DOB, specimen site, and collection date.

Complete ALL fields of the Reditus test requisition form (available at

<https://www.redituslabs.com/resources/forms>)

Include patient demographics and insurance information.

### Collection Instructions for Wound Swab

1. Open the biopsy kit in a sterile manner.
2. Position patient in lateral decubitus position, with pillow under head.
3. Mark biopsy site(s). Avoid scar tissue, moles, areas with rash, injury, etc.

For lower extremity, 3 biopsy sites are standard:

- a. 10 cm below greater trochanter (hip joint) – lateral, proximal thigh (Proximal Thigh = PT)
- b. 10 cm above the lateral joint line of the knee – lateral, distal thigh (Distal Thigh =DT)
- c. 10 cm below the lateral joint line of the knee (Calf = CA)

Podiatrists use different biopsy locations that usually include 2 biopsy sites:

- i. 10 cm above the lateral malleolus (ankle) (Ankle = A)
- ii. Dorsum of foot in the extensor digitorum brevis muscle belly – superficial fibular nerve distribution (Foot = F)

4. Wipe biopsy sites with betadine, followed by alcohol
5. Local anesthetic is required.
6. Use free hand to apply tension around biopsy site.
7. Insert the 3 mm punch tool with gentle pressure in a downward, rotating movement.
8. Insert the punch tool  $\frac{3}{4}$  of the way down the metal cutting portion, at least 3 mm.
9. Remove the punch tool. If the tissue is inside the tool, use the plunger to eject the tissue directly into an appropriately labeled Zamboni's fixative tube. If the tissue remains within the biopsy site, carefully remove the tissue with forceps, using the provided scissors to cut underlying connective tissue as needed, and place into the Zamboni's fixative tube.
10. Apply pressure, hemostatic agent, and suture closure as needed, followed by topical antibiotic and bandage.

## Instructions for Specimen Transport

Place the Zamboni's tube into a biohazard bag and place the completed test requisition form, patient demographics and insurance information, in the outside pocket. Place the tube and a frozen gel pack into the insulated sleeve provided. Use the ENFD kit box and provided FedEx shipping supplies for return shipping. **Call FedEx at 1-800-463-3339 to schedule a pickup. Biopsy should be shipped the same day the biopsy is performed!**

**Website:** <https://www.redituslabs.com/>

**Phone:** 469-498-0221

**Fax:** 469-498-0223

**NOTE:** You may be contacted by Reditus Laboratories, or testing may be delayed or rejected, if the above instructions are not followed or the requisition form is not filled out completely. If there are any questions about specimen collection, handling, or shipping please contact the Reditus Laboratories to speak with laboratory personnel.

## Nail Biopsy for Pathology/Histology Analysis

<b>Test Name:</b>	Higher Sensitivity panel for nail dystrophy/fungus Routine PAS panel for nail dystrophy/fungus Nail Neoplasia panels
<b>Method Name:</b>	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 Iron Stain Immunohistochemical Staining
<b>Results:</b>	Differential diagnoses include, but are not limited to: lichen planus, melanonychia, microtrauma, nail psoriasis, onychogryphosis, onycholysis, onychomycosis, melanoma, nail bed dystrophy, nail dystrophy
<b>Reference Range:</b>	Not Detected for all targets
<b>Clinical Significance:</b>	Diagnosis and prognosis of clinically ambiguous nail lesions or dystrophies.
<b>Submission Criteria:</b>	Nail clip and excisional biopsies, nail removals: at least 6 mm of total tissue, dry or in formalin. Formalin submission is preferable when examination of nail bed or matrix is desired. Nail punch biopsies: 2-3 mm punch in formalin.
<b>Rejection Criteria:</b>	Rejection criteria include but are not limited to those with: <ol style="list-style-type: none"><li>1. Mismatched requisitions</li><li>2. Specimens without TWO patient identifiers</li><li>3. Specimens submitted without approval</li></ol>
<b>Authorization:</b>	Diagnostic testing can only be performed with approval from an authorized provider/agency.
<b>Turn Around Time:</b>	3 Days

## **Instructions for Nail Submission**

### **General Guidelines**

Always confirm patient identity and obtain a signed patient consent for treatment prior to biopsy.

Biopsy the most severely affected part of the area of concern.

Be gentle with collected specimens. Handling can easily introduce microscopic artifacts.

Specimens going into formalin should be preserved immediately after collection.

Multiple toenails for onychomycosis may be submitted together, otherwise, biopsies from separate anatomical sites must be submitted in separate specimen containers.

Label ALL specimens with patient name, DOB, specimen site, and collection date.

Complete ALL fields of the Reditus test requisition form (available at

<https://www.redituslabs.com/resources/forms>)

Include a patient demographics sheet and insurance information.

### **Collection Instructions for Nail Clip/Excision Biopsies**

1. Wipe toenail collection site with 70% isopropyl alcohol.
2. Local anesthesia may or may not be required.
3. Debride and discard distal nail clippings.
4. Obtain specimen from most proximal area of nail.
5. Use curette to obtain additional subungual debris.
6. Place nail and subungual debris into an appropriately labeled dry keratin bag.

### **Collection Instructions for Nail Punch Biopsies**

1. Soften nail by soaking digit in warm water for 10-15 minutes. Nail may also be thinned by grinding to facilitate penetration of the punch tool.
2. Drape site and prepare the area with 70% alcohol or betadine.
3. Local anesthesia is required.
4. Obtain a 2-3 mm punch, through nail plate and down to bone.
5. Withdraw the punch, avoiding rotation to prevent detachment of nail plate from underlying tissue, and remove the tissue from the tool with a needle or forceps.
6. Place directly into an appropriately labeled formalin jar.

### **Collection Instructions for Nail Removal**

1. Soften nail by soaking digit in warm water for 10-15 minutes.
2. Drape site and prepare the area with 70% alcohol or betadine.
3. Local anesthesia is required.
4. Use a nail elevator or spatula to separate the nail plate from the nail bed.
5. Use a nail splitter to cut nail at proximal fold.
6. Grasp nail with hemostat and twist laterally to remove the entire nail intact.
7. Place into an appropriately labeled dry keratin bag or formalin jar. Formalin is preferred if examination of the nail bed/matrix is desired.

## Instructions for Specimen Transport

### **Dry Keratin Bags**

Staple or paperclip the completed test requisition form, patient demographics and insurance information, to dry keratin bag(s) for shipment.

1. Via USPS: Use only tear-proof, pre-paid, mailing envelopes, supplied by Reditus Laboratories. One envelope accommodates 2-4 cases. This is standard first-class USPS shipping, so please allow for proper delivery time.
2. Via FedEx/UPS: Use clinical paks designated for UN3373 Biological, Category B, Substances.

### **Formalin Jars**

Place formalin jars into a biohazard bag and place the completed test requisition form, patient demographics and insurance information, in the outside pocket. Ship via FedEx/UPS, in a clinical pak designated for UN3373 Biological, Category B, Substances.

### **Send to:**

Reditus Laboratories  
Attn: Pathology  
1805 Riverway Drive  
Pekin, IL 61554

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**Website:** <https://www.redituslabs.com/>

**Phone:** 469-498-0221

**Fax:** 469-498-0223

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## Skin/Soft Tissue Excisional Biopsy for Pathology/Histology Analysis

<b>Test Name(s):</b>	Pigmented Lesion (r/o melanoma) panel Non-Pigmented Lesion (r/o carcinoma) panel Ulceration panel Tumor (Ganglion/Lipoma/Sarcoma) panel Inflammatory (Tophus/Abscess) panel
<b>Method Name(s):</b>	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 Iron Stain Immunohistochemical Staining
<b>Results:</b>	Differential diagnoses include, but are not limited to: carcinoma, Kaposi’s Sarcoma, melanoma, neoplasm, ulcers, neoplastic ulcers, verruca, pigmented lesions
<b>Reference Ranges:</b>	Not Detected for all targets
<b>Clinical Significance:</b>	For evaluation of an entire, solitary lesion with surrounding normal tissue. Preferred method for inflammatory or deep dermal lesions and when melanoma is suspected.
<b>Submission Criteria:</b>	An ellipse of skin and subcutaneous tissue to, or including, fat. Then entire lesion should be excised with a border of normal skin. Place immediately into formalin.
<b>Rejection Criteria:</b>	Rejection criteria include but are not limited to those with: 1. Mismatched requisitions 2. Specimens without TWO patient identifiers 3. Specimens submitted without approval
<b>Authorization:</b>	Diagnostic testing can only be performed with approval from an authorized provider/agency.
<b>Turn Around Time:</b>	3 Days

## **Instructions for Excisional Biopsy Submission**

### **General Information**

Always confirm patient identity and obtain a signed patient consent for treatment prior to biopsy. An excisional biopsy should contain a border of normal skin/tissue for comparison. Be gentle with collected specimens. Handling can easily introduce microscopic artifacts. Specimens should be preserved in formalin immediately after collection. Biopsies from separate anatomical sites must be submitted in separate specimen containers. Label ALL specimens with patient name, DOB, specimen site, and collection date. Complete ALL fields of the Reditus test requisition form (available at <https://www.redituslabs.com/resources/forms>) Include a patient demographics sheet and insurance information.

### **Collection Instructions for Excisional Biopsies**

1. Drape site and prepare the area with 70% alcohol or betadine.
2. Local anesthesia is required.
3. Maintain traction around the biopsy site with your free hand.
4. Start the incision with the point of a scalpel blade at the apex of the ellipse.
5. Carry the cut around the edge of the lesion, forming the arc of the ellipse, in a smooth motion to the opposite apex.
6. Repeat the process on the other side of the lesion, forming the complete ellipse.
7. If orientation of the ellipse will be important to your diagnosis, mark the tissue with a non-dissolvable suture or identifiable nick.
8. Use forceps to raise the tissue at one apex and use a scalpel to cut through the subcutaneous tissue.
9. Once freed, place the biopsy immediately into an appropriately labeled formalin jar.
10. Apply pressure or cautery and suture closure as needed, followed by topical antibiotic and bandage.

## **Instructions for Specimen Transport**

Place formalin jars into a biohazard bag and place the completed test requisition form, patient demographics, and insurance information, in the outside pocket. Ship via FedEx/UPS, in a clinical pak designated for UN3373 Biological, Category B, Substances.

### **Send to:**

Reditus Laboratories  
Attn: Pathology  
1805 Riverway Drive  
Pekin, IL 61554

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**Website:** <https://www.redituslabs.com/>

**Phone:** 469-498-0221

**Fax:** 469-498-0223

**NOTE:** Our pathology lab hours are 8-4:30, Monday-Friday. Specimen turn-around-time excludes weekends. You may be contacted by Reditus Laboratories, or testing may be delayed or rejected, if the above instructions are not followed or the requisition form is not filled out completely. If there are any questions about specimen collection, handling, or shipping please contact the Reditus Laboratories to speak with laboratory personnel.

## Skin/Soft Tissue Punch Biopsy for Pathology/Histology Analysis

<b>Test Name:</b>	Pigmented Lesion (r/o melanoma) panel Non-Pigmented Lesion (r/o carcinoma) panel Dermatitis panel Tumor (Ganglion/Lipoma/Sarcoma) panel
<b>Method Name:</b>	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 Iron Stain Immunohistochemical Staining
<b>Results:</b>	Differential diagnoses include, but are not limited to: carcinoma, macules, melanoma, neoplasm, papules, verruca, dermatitis, eczema, pigmented lesions, psoriasis, Tinea Pedis
<b>Reference Range:</b>	Not detected for all targets
<b>Clinical Significance:</b>	This is one of the most important diagnostic tests for skin disorders. Ideal for examination of cutaneous neoplasms, pigmented lesions, inflammatory lesions and chronic skin disorders with deep dermal involvement. Multiple punch biopsies may provide similar diagnostic information as a larger excisional biopsy with reduced healing time.
<b>Submission Criteria:</b>	2 mm to 4 mm punches. Multiple punches may be appropriate for larger lesions and may be submitted together when they are from the same anatomical site and for the same condition. Place immediately into formalin.
<b>Rejection Criteria:</b>	Rejection criteria include but are not limited to those with: <ol style="list-style-type: none"><li>1. Mismatched requisitions</li><li>2. Specimens without TWO patient identifiers</li><li>3. Specimens submitted without approval</li></ol>
<b>Authorization:</b>	Diagnostic testing can only be performed with approval from an authorized provider/agency.
<b>Turn Around Time:</b>	3 Days

## **Instructions for Skin Punch Biopsy Submission**

### **General Information**

Always confirm patient identity and obtain a signed patient consent for treatment prior to biopsy. Biopsy the most severely affected part of the area of concern.

Be gentle with collected specimens. Handling can easily introduce microscopic artifacts.

Specimens should be preserved in formalin immediately after collection.

Biopsies from separate anatomical sites must be submitted in separate specimen containers.

Label ALL specimens with patient name, DOB, specimen site, and collection date.

Complete ALL fields of the Reditus test requisition form (available at

<https://www.redituslabs.com/resources/forms>)

Include a patient demographics sheet and insurance information.

### **Collection Instructions for Skin Punch Biopsies**

1. Drape site and prepare the area with 70% alcohol or betadine.
2. Local anesthesia is required.
3. Press a 2-4 mm punch tool through the skin and to the subcutaneous fat.
4. Rotate the punch to cut the deep margin.
5. Pull the punch tool out, using a scalpel to cut connective tissue as needed.
6. Remove the biopsy core with forceps and place immediately into an appropriately labeled formalin jar.
7. Apply a hemostatic agent or suture defect closure, followed by topical antibiotic and bandage.

## **Instructions for Specimen Transport**

Place formalin jars into a biohazard bag and place the completed test requisition form, patient demographics and insurance information, in the outside pocket. Ship via FedEx/UPS, in a clinical pak designated for UN3373 Biological, Category B, Substances.

### **Send to:**

Reditus Laboratories  
Attn: Pathology  
1805 Riverway Drive  
Pekin, IL 61554

Pre-paid, self-addressed, shipping supplies are available from Reditus Laboratories by calling 469-498-0221.

**Website:** <https://www.redituslabs.com/>

**Phone:** 469-498-0221

**Fax:** 469-498-0223

**NOTE:** Our pathology lab hours are 8-4:30, Monday-Friday. Specimen turn-around-time excludes weekends. You may be contacted by Reditus Laboratories, or testing may be delayed or rejected, if the above instructions are not followed or the requisition form is not filled out completely. If there are any questions about specimen collection, handling, or shipping please contact the Reditus Laboratories to speak with laboratory personnel.

## Skin Shave Biopsy for Pathology/Histology Analysis

<b>Test Name:</b>	Pigmented Lesion (r/o melanoma) panel Non-Pigmented Lesion (r/o carcinoma) panel Dermatitis panel
<b>Method Name:</b>	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 Iron Stain Immunohistochemical Staining
<b>Results:</b>	Differential diagnoses include, but are not limited to: carcinoma, macules, melanoma, neoplasm, papules, verruca, dermatitis, eczema, pigmented lesions, psoriasis, Tinea Pedis
<b>Reference Range:</b>	Not Detected for all targets
<b>Clinical Significance:</b>	For sampling superficial ailments such as small macules, papules, and macular lesions. These are often superior to punch biopsies when a large section of epidermis is affected.
<b>Submission Criteria:</b>	At least 5 mm of tissue, submitted dry or in formalin. Formalin best preserves soft tissue elements. Dry, flaky, keratinized skin may be submitted dry.
<b>Rejection Criteria:</b>	Rejection criteria include but are not limited to those with: <ol style="list-style-type: none"><li>1. Mismatched requisitions</li><li>2. Specimens without TWO patient identifiers</li><li>3. Specimens submitted without approval</li></ol>
<b>Authorization:</b>	Diagnostic testing can only be performed with approval from an authorized provider/agency.
<b>Turn Around Time:</b>	3 Days

## **Instructions for Skin Shave Submission**

### **General Information**

Always confirm patient identity and obtain a signed patient consent for treatment prior to biopsy.

Biopsy the most severely affected part of the area of concern.

Be gentle with collected specimens. Handling can easily introduce microscopic artifacts.

Specimens going into formalin should be preserved immediately after collection.

Biopsies from separate anatomical sites must be submitted in separate specimen containers.

Label ALL specimens with patient name, DOB, specimen site, and collection date.

Complete ALL fields of the Reditus test requisition form (available at

<https://www.redituslabs.com/resources/forms>)

Include a patient demographics sheet and insurance information.

### **Collection Instructions for Skin Shave Biopsies**

1. Wipe collection site with 70% isopropyl alcohol.
2. Local anesthesia may or may not be required.
3. Enter skin at a 10-15° angle. Use a continuous sawing motion and move the blade underneath the lesion, creating a smooth divot.
4. Grasp the epidermal lip with forceps and remove the divot. Use a scalpel as necessary to release the biopsy.
5. Place the biopsy into an appropriately labeled dry keratin bag or formalin jar.
6. Apply hemostatic agent, topical antibiotic, and bandage to the biopsy site as needed.

## **Instructions for Specimen Transport**

### **Dry Keratin Bags**

Staple or paperclip the completed test requisition form, patient demographics and insurance information, to dry keratin bag(s) for shipment.

1. Via USPS: Use only tear-proof, pre-paid, mailing envelopes, supplied by Reditus Laboratories. One envelope accommodates 2-4 cases. This is standard first-class USPS shipping, so please allow for proper delivery time.
2. Via FedEx/UPS: Use clinical paks designated for UN3373 Biological, Category B, Substances.

### **Formalin Jars**

Place formalin jars into a biohazard bag and place the completed test requisition form, patient demographics and insurance information, in the outside pocket. Ship via FedEx/UPS, in a clinical pak designated for UN3373 Biological, Category B, Substances. Pre-paid, self-addressed, shipping supplies are available from Reditus Laboratories by calling 469-498-0221.

#### **Send to:**

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Attn: Pathology  
1805 Riverway Drive  
Pekin, IL 61554

**Website:** <https://www.redituslabs.com/>

**Phone:** 469-498-0221

**Fax:** 469-498-0223

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## Wound Swab for PCR Analysis

<b>Test Name:</b>	PCR Bacterial/Fungal Speciation + Antibiotic Resistance Gene Detection
<b>Method Name:</b>	Pathogen Identification by quantitative Real-Time Polymerase Chain Reaction
<b>Results:</b>	Detected, Not Detected, Inconclusive
<b>Reference Ranges:</b>	Not detected for all targets on panel
<b>Clinical Significance:</b>	This is a fast and highly sensitive method of determining the total bacterial and fungal load in chronic wounds and which antibiotic would best treat the infection and help heal the wound.
<b>Submission Criteria:</b>	Wound swabbing, submitted in AIT Labs Molecular Diagnostic Medium.
<b>Rejection Criteria:</b>	Rejection criteria include but are not limited to those with: <ol style="list-style-type: none"><li>1. Specimens received in collection tubes other than AIT Lab Molecular Diagnostic Medium</li><li>2. Mismatched requisitions</li><li>3. Specimens without TWO patient identifiers</li><li>4. Specimens submitted without approval</li></ol>
<b>Authorization:</b>	Diagnostic testing can only be performed with approval from an authorized provider/agency.
<b>Turn Around Time:</b>	4 Days

## Instructions for Wound Swab Submission

### General Information

Always confirm patient identity and obtain a signed patient consent for treatment prior to biopsy.

Biopsies from separate anatomical sites must be submitted in separate specimen containers.

Label ALL specimens with patient name, DOB, specimen site, and collection date.

Complete ALL fields of the Reditus test requisition form (available at

<https://www.redituslabs.com/resources/forms>)

Include a patient demographics sheet and insurance information.

### Collection Instructions for Wound Swab

1. Remove sterile swab from collection kit. Be careful no to contaminate the tip.
2. Follow one of the sample collection methods below:
  - a. **Decubitus Ulcer:** Roll the sterile swab directly across the affected area until saturated.
  - b. **Abscess with skin intact:** Use a sterile syringe to aspirate at least 1 ml of material and eject aspiration into a sterile collection cup. Roll the sterile swab in the collection cup until saturated.
  - c. **Abscess with open skin:** Wipe the skin around the opening with 70% alcohol, then roll the sterile swab in the open abscess until saturated.
3. Place the swab in the molecular diagnostic medium tube.
4. Swirl the swab in the medium several times.
5. Break the swab handle at the indentation mark and recap the tube (the swab will remain in tube).
6. Label the tube with patient name, DOB, specimen site, and collection date.
7. Keep the tube in an upright position for 10-15 minutes before placing it in the mailing envelope.

## Instructions for Specimen Transport

Place medium tube into a biohazard bag and place the completed test requisition form, patient demographics, and insurance information, in the outside pocket. Ship via FedEx/UPS, in a clinical pak designated for UN3373 Biological, Category B, Substances.

### **Send to:**

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Attn: Pathology  
1805 Riverway Drive  
Pekin, IL 61554

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