Specimen Collection Guide
**Urine Culture**
The container will keep bacterial colony counts constant during transport to the lab. It is for urine culture only. Stable for 48 hours at room temperature.
Supply #1838
Culture, Urine Routine Test # 704705
Culture, Urine Catheterized Test # 4647

**Urinealysis**
Urinealysis Transport Tubes are stable for 72 hours from collection. If ordering a Urogram w/Reflex to Culture, be sure to submit appropriate specimen. See 'Urine Culture' section above.
Supply Numbers:
Stockwell Urinalysis Transport Tube #20108
Urogram Test # 3305
Urogram w/Reflex to Culture Test # 2305
Urogram w/Reflex to Culture (OB) Test # 3305
Urogram w/Reflex to Microscopic Test # 3300
Urogram w/Reflex to Microscopic &/or Culture Test # 4305
Urogram w/Reflex to Microscopic &/or Culture (OB) Test # 5305

**Sterile Containers**
Sterile fluids, tissues and sputum for culture, and stool samples for Clostridium difficile toxin assay may be submitted in this container. Nails, skin, scrapings and hair may be submitted for mycology studies. Specimens for mycobacterium (AFB) culture may be sent in these containers. Please refrigerate and bag specimens for AFB culture immediately after collection.
Supply Numbers:
Sterile Urine Cups #1789
Sterile Urine Bags (Pediatric) #938

**Pinworm**
The pinworm paddle or “swube” will capture eggs of Enterobius Vermicularis (pinworm) for microscopic examination and subsequent identification. The sticky side of the paddle should be pressed to the perianal folds. Do not insert paddle into the anus. Do not cover paddle with stool. Place the paddle back into the plastic tube, cap tightly and leave at room temperature until laboratory pick-up.
Supply #1816
Pinworm Exam Test # 4620

**Ova & Parasite**
These pink and gray Para-Pak vials are used for ova and parasite testing. Place stool into each vial until the red fill-line is reached and mix well to ensure preservation. Both vials must be submitted for the O&P exam. Giardia antigen may also be ordered separately. Cryptosporidium, Microsporidium, and Cyclospora examinations may be performed from a Para-Pak formalin vial, but must be ordered separately. Leave specimens at room temperature. Raw stool sample is unacceptable.
Supply #6076
O&P (X1) Test # 4792
O&P (X2) Test # 74028
Giardia/Cryptosporidium Exam Test # 900007
Giardia Antigen Test # 15338
Microsporidia Exam Test # 3880
Cyclospora/Cystoispora Test # 4644

**Gastrointestinal**

**AFB Culture and Smear** Test # 8173
**Fungal Culture** Test # 8176
**Sputum Culture w/ Gram Stain** Test # 4011
**Clostridium difficile Toxin, ELA** Test # 9171
**Parasite I.D.** Test # 4640
**Semen Analysis** Test # 703640
**Body Fluid Culture (Aerobic/Anaerobic)** Test # 4003
**Body Fluid Culture (Aerobic Only)** Test # 900016
**Tissue Culture (Aerobic/Anaerobic)** Test # 4180
**Tissue Culture (Aerobic Only)** Test # 4178

**Stool Culture**
This transport media is designed to keep enteric pathogens viable during transport to the lab. Place stool into orange capped Para-Pak vial until red fill-line is reached and mix well to ensure preservation. Yersinia and Vibrio culture must be requested separately. Leave at room temperature until lab pick-up. Raw stool sample is unacceptable.
Supply #983
Culture, Stool (Salm, Shig, Camp, Shiga) Test # 803107
Culture, Yersinia Test # 4660
Culture, Vibrio Test # 4058

* Expired media will not be tested *

1.1 Collection Kits and Devices
### Anaerobic Cultures and Deep Wound Cultures

Transport medium for tissue, pus, aspirates, and deep wound cultures for anaerobes. Tissues, fluids and swabs for aerobic culture may also be transported in this transport medium. A gram stain is included.

- **Supply #1806**
  - Wound Culture Anaerobic/Aerobic
  - Test # 4763
- **Tissue Culture Anaerobic/Aerobic**
  - Test #4180
- **Body Fluid Culture Anaerobic/Aerobic**
  - Test # 4003
- **Source** must be indicated on the requisition

### Bordetella, DFA

(Includes B. pertussis and B. parapertussis)

Submit 2 air dried slides utilizing the Nasopharyngeal Swab. Write patient’s name on the frosted side of the slides. DFA cannot be performed from specimen submitted in Regan-Lowe Media.

- **Supply Numbers:**
  - Bordetella Slides #6494
  - Nasopharyngeal Swab #22564
  - Cardboard Slide Holder #2490
- **Bordetella, DFA**
  - Test #15053

### Bordetella Culture

(Includes B. pertussis and B. parapertussis)

Submit 1 nasopharyngeal swab in Regan Lowe Charcoal media. Refrigeate before and after specimen collection.

- **Supply Numbers:**
  - Regan Lowe Media #6180
  - Nasopharyngeal Swab #22564
- **Bordetella Culture**
  - Test #4274

### Bordetella DNA, Qualitative, PCR

( Includes B. pertussis and B. parapertussis)

**Mini-tip Swab with Liquid Amies**

- **Supply #19221**
- **B. pertussis/parapertussis DNA**
  - Test #901352

### Rapid Strep Tests

2-Swab collection device with liquid Amies

- **Supply #10499**
- **Rapid Strep w/ Culture Reflex**
  - Test #74119
- **Source** must be indicated on the requisition

### SPS Vacutainer (Blood Culture Tubes)

Allow tubes to fill completely. Submit 2 tubes per culture.

- **8.3 mL tube, Supply #2827**
  - Culture, Blood (X1)
    - Test # 4040
  - Culture, Blood (X2)
    - Test # 800006
  - Culture, Blood (X3)
    - Test # 800007

### eSwab - White-Cap Routine Culture Swab

These culture swabs are designed for routine bacterial cultures and provide a greater recovery of organisms for culture than previously supplied swabs. Specify SOURCE on requisition and keep at room temperature after collection. Rapid Strep cannot be tested from these culture swabs.

Note that the preferred sample for any culture is tissue, fluid, or pus. Large/moderate amounts of tissue and adequate volumes of pus or fluid should be submitted in a sterile container. Small pieces of tissue and low volumes of sterile body fluids should be submitted in supply #1806 - Anaerobic Transport Tube.

- **Supply #25784**
  - Culture, Fungal
    - Test # 8176
  - Culture, Genital
    - Test # 704713
  - Group A Strep Culture
    - Test # 4704
  - Culture, Yeast
    - Test # 708177
  - Group B Strep Culture
    - Test # 4615
  - Gram Stain
    - Test # 4000
  - Culture, Wound, Aerobic
    - Test # 4188
  - Gastrointestinal Panel
    - Test # 906706
  - Culture, Eye (Conjuctiva)
    - Test # 4642
  - Viral Respiratory Panel
    - Test # 906704
  - Culture, Ear
    - Test # 4639
  - MRSA Screen Culture
    - Test # 901617

### eSwab - Blue-Cap Mini-Tip Culture Swab

These culture swabs provide a greater recovery of organisms for culture than previously supplied swabs. Specify SOURCE on requisition and keep at room temperature after collection.

- **Supply #25785**
  - Culture, Nasopharyngeal
    - Test # 4618
  - Culture, Genital (Urethral)
    - Test # 704713

---

*Expired media will not be tested*
Breath Bag

Patient ID: [ REDacted]
Medical Institution
Date: [ REDacted]
Time: [ REDacted]
Baseline: [ REDacted]
Sample: [ REDacted]

Breath Bag

Patient ID: [ REDacted]
Medical Institution
Date: [ REDacted]
Time: [ REDacted]
Baseline: [ REDacted]
Sample: [ REDacted]

InSure®, Fecal Immunochemical Test
Refer to the instructions provided with the collection kit for sample collection and handling.
A Sonora Quest Laboratories test requisition must be included when submitting samples to the lab.

Supply #18067
InSure® Screening Test # 11293
InSure® Diagnostic Test # 11290

H. pylori: Breath Kit
Refer to the instructions provided with the kit for patient preparation and collection. Note that this test is not available for patients under 3 years of age.

Supply #19846
H. pylori Urea Breath Test Test # 902147
H. pylori Urea Breath Test - Pediatric Test # 906542

Stool testing also available.
H. pylori Stool Collection Kit, Supply #19222

Virus Culture (Including Herpes & Chlamydia)
This multipurpose transport medium is designed to maintain viability of viruses and chlamydia for culture. Please submit separate tubes for each test code ordered. When submitting for chlamydia culture, do not use swabs with wooden shafts, use a rayon/ dacron swab. Refrigerate after specimen collection. Cannot be used for bacterial, fungal, AFB, or HPV cultures.

Supply Numbers:
Viro Pak - Lesion, Genital, Throat
(large swab) #20011
Viro Pak - Nasopharyngeal
(smaller swab) #20012

Herpes Culture with rfx Typing
Herpes Culture, Rapid
Influenza A & B, Rapid Screen
Influenza A/B and RSV, Qual., Real-Time RT-PCR
Mycoplasma/Unreaplasma Culture
RSV Direct Stain (DFA)
RSV Rapid
Virus Culture, Respiratory & DFA
Virus Culture, Varicella zoster/Herpes simplex & DFA

Source must be indicated on the requisition

QuantiFERON® TB Gold
Supply #24522
If > 3350 ft. elevation, order High Elevation Tubes - Supply #24579
Test # 905108
Tubes must be collected in the order indicated below. Each tube must contain 0.8 - 1.2 mL of blood. Shake tubes up and down ten (10) times just firmly enough to ensure the entire inner surface of the tube is coated with blood. Submit to lab ASAP for incubation and specimen processing.
Samples must be received within 12 hours of collection and incubated within 16 hours of collection. DO NOT CENTRIFUGE.
Statewide: Do not collect on Sundays.
If in rural area, only collect Monday - Friday after 11 a.m.

InSure®, Fecal Immunochemical Test
Refer to the instructions provided with the collection kit for sample collection and handling.
A Sonora Quest Laboratories test requisition must be included when submitting samples to the lab.

Supply #18067
InSure® Screening Test # 11293
InSure® Diagnostic Test # 11290

Fetal Fibronectin
Refer to the instructions provided with the kit for collection and handling.

Supply #8617
Fetal Fibronectin Test Test # 11986

Fetal Fibronectin
Refer to the instructions provided with the kit for collection and handling.

Supply #8617
Fetal Fibronectin Test Test # 11986

* Expired media will not be tested *

Collection Kits and Devices

1.3
1.4 Collection Kits and Devices

GC Screen Culture – Charcoal Transport
Supply Numbers: Culture Swab (GC Only) #4590
Gonopak (GC Plate) #2181

GC Screen Test # 4785

Multi-Collect Kit for Health Panel, TEM-PCR™
Supply #25659
Health Panel, Tem-PCR™ Test # 906142

The swab or urine specimen for the Health Panel must be collected using a Multi-Collect STD Collection Kit containing a vaginal/urethral/endocervical swab, a transfer pipette for urine specimens and an orange top transport tube. The Health Panel can be performed on urine, vaginal swabs, or endocervical swabs. Please ensure that the sample submitted to the laboratory is labeled with two patient identifiers (patient name, date of birth, etc.).

Additional collection instructions can be obtained by contacting your Sonora Quest Laboratories Account Manager.

Wet Mount/Trichomonas Culture
Trichosel Broth - Use Dacron Swab
Supply #10618, Dacron Swab #1848

Culture, Trichomonas Test # 5575
Wet Mount/Prep Exam Test # 704002

Aptima® Specimen Collection Kits

Combo 2® Unisex Collection Kit (Female Endocervical; Male Urethral)
Supply #22127

Important Notes:
- The polyester fiber-tipped swab with the white shaft is for cleaning the cervical os ONLY. DO NOT use for collecting the patient specimen.
- The shaft of the blue collection swab MUST be broken at the score mark.
- Specimens containing no collection swab, any swab other than the supplied blue collection swab, cleaning swab, or an incorrectly broken shaft cannot be tested.

Urine Collection Kit (comes with pipette) - Supply #20122

Important Notes:
- Patient should not have urinated for at least one hour prior to specimen collection.
- Direct patient to provide a FIRST-CATCH urine (20-30 mL) into a preservative-free collection cup.
- Transfer 2 mL of urine into the transport tube using the pipette provided.

Multitest Swab Collection Kit - Supply #34893

Important Note:
- The shaft of the pink collection swab MUST be broken at the score mark.

Chlamydia trachomatis, Aptima Device Test # 903150
N. gonorrhoeae, Aptima Device Test # 903151
Chlamydia/N. gonorrhoeae, Aptima Device Test # 904767
T. vaginalis, Aptima Device Test # 904768

All Aptima kits listed above are acceptable for Chlamydia/N. gonorrhoeae and T. vaginalis testing.

SureSwab®, Vaginosis/Vaginitis Plus Test # 704763
SureSwab®, BV DNA QT, RT-PCR Test # 904765
SureSwab®, Candidiasis, PCR Test # 904766
SureSwab®, HSV-1/2 Test # 905434
ThinPrep®
Refer to the instructions provided with the collection kit for sample collection and handling.

Supply Numbers:
ThinPrep® Vials w/Brushes/Spatulas (Kit of 25) #25777
ThinPrep® Vials w/Brooms (Kit of 25) #25778

Tests Available:
Age Based Screening
Pap, ThinPrep
HPV mRNA
HPV Genotypes 16, 18/45
Chlamydia trachomatis, ThinPrep® Vial
N. gonorrhoeae, ThinPrep® Vial
Chlamydia trachomatis/N. gonorrhoeae, ThinPrep® Vial
T. vaginalis, ThinPrep® Vial

A wide variety of reflex testing is available off the ThinPrep® vial. Please contact your Account Manager or visit SonoraQuest.com for a comprehensive listing.

UroCyte (UroVysion) Collection Kit
Preserves urine specimens for cytological examination to determine bladder cancer recurrence.

Refer to the “Instructions For Use” included with the collection kit for specimen collection and transport.

Supply #19343
FISH: Vysis® UroVysion, Bladder Test # 3462

1.5 Collection Kits and Devices

Bacterial Vaginosis/Vaginitis Test # 902043

ThinPrep® PreservCyt Solution
U R O C Y T E
ThinPrep® Specimen Collection Cup
U R O C Y T E
BV/V Kit
(Affirm VP III)
Refer to Sonora Quest Laboratories' reference manual for collection instructions.

Supply #19674
Bacterial Vaginosis/Vaginitis Test # 902043

Processed media is not eligible for retesting.

* Expired media will not be tested *
Processing Tubes

The vacuum blood collection tube does not fill completely to the stopper, but only to the required level. Proper dilution of the blood and additive in the tube is critical. Be sure that each tube is allowed to fill until the blood flow stops. If unsure, wait an additional 1-2 seconds before removing the tube from the holder and withdrawing the needle from the arm. Improperly filled tubes will be rejected by the laboratory, and the sample must be redrawn to ensure accurate results.

REMEMBER: Always check the expiration date on tubes prior to collection. Expired tubes will NOT be processed by the laboratory, and the sample must be redrawn to ensure accurate results.

<table>
<thead>
<tr>
<th>ORDER OF DRAW</th>
<th>MIX BY INVERTING</th>
<th>ADDITIVE</th>
<th>EFFECTS OF UNDER-FILLING</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 to 10 TIMES</td>
<td>0.105M Sodium Citrate (3.2%)</td>
<td>Coagulation results are erroneously prolonged. (A completely filled tube is required.)</td>
<td></td>
</tr>
<tr>
<td>8 to 10 TIMES</td>
<td>Gel Barrier Tube</td>
<td>Poor barrier formation; insufficient sample.</td>
<td></td>
</tr>
<tr>
<td>8 to 10 TIMES</td>
<td>Sodium Heparin</td>
<td>Errors in result due to excessive heparin.</td>
<td></td>
</tr>
<tr>
<td>8 to 10 TIMES</td>
<td>Liquid K₃ EDTA</td>
<td>Errors in cell counts and hematoctit; staining alterations.</td>
<td></td>
</tr>
<tr>
<td>8 to 10 TIMES</td>
<td>Spray-dried K₂ EDTA (Plus)</td>
<td>Errors in cell counts and hematoctit; staining alterations.</td>
<td></td>
</tr>
<tr>
<td>8 to 10 TIMES</td>
<td>Spray-dried EDTA K₂ (PPT)</td>
<td>Quantity not sufficient to perform testing.</td>
<td></td>
</tr>
<tr>
<td>8 to 10 TIMES</td>
<td>Sodium Fluoride</td>
<td>Cloting of specimen.</td>
<td></td>
</tr>
<tr>
<td>8 to 10 TIMES</td>
<td>Acid Citrate Dextrose (ACD)</td>
<td>Errors in results due to changes in cell morphology.</td>
<td></td>
</tr>
</tbody>
</table>

WHY?

- Most tubes contain an ADDITIVE or CLOT ACTIVATOR that needs to be mixed with the blood sample.
- Tubes with anticoagulants such as EDTA need to be mixed to ensure the specimen does not clot.

HOW?

- Holding tube upright, gently invert 180° and back.
- Repeat movement as prescribed for each tube.

WHEN?

- Immediately after drawing.

CONSEQUENCES IF NOT MIXED —

- Tubes with anticoagulants will clot.
- SST tubes may not clot completely.
- Specimen will often need to be redrawn.
2.2 Processing Tubes and Specimens

Important reminder: 2 identifiers needed on all specimen tubes and containers, including liquid based PAP Vials and Biopsy Bottles.

Per College of American Pathologist (CAP) regulations ANP.11460, CYP.03300 and Gen.40491, all primary specimen containers (the innermost container submitted to Sonora Quest Laboratories that contains the specimen to be tested) MUST be labeled with two patient identifiers.

Patient identifiers include (in order of preference) but are not limited to:

- Patient Name (First and Last)
- Requisition Number or Bar Code Label
- Patient Date of Birth
- Unique Patient Identifier

Patient identifiers on the specimen container and the laboratory order form must match in order for the specimen to be processed. Please make sure to include the date and time of draw directly on the specimens for timed testing. Patient identifiers on specimen bags do not satisfy CAP requirements and cannot be used by Sonora Quest Laboratories.

Thank you for your assistance in ensuring that CAP requirements are being met.
Specimen Integrity
An unspun or poorly spun specimen allows the cells to come into contact with the serum or plasma. Metabolic changes occur until the specimen is properly spun. Delay in processing changes the composition of the specimen and could cause erroneous values.

Centrifuge Operation
3000 RPM is the common speed under most circumstances. The majority of samples require 10 – 15 minutes of centrifugation.

Pipette Technique
A pipette is used to remove the serum or plasma after a specimen has been spun.

When using a pipette, be cautious not to disturb the red cells. If the red cells are disturbed, re-spin the specimen and begin pipette process again.

Transfer the serum or plasma from the pipette into the transport vial and cap the vial. Store sample at the appropriate temperature as indicated for the testing requested.

Send ONLY the transport vial to the laboratory for testing. DO NOT send the original tube.

Pour Technique
Slowly pour the required amount of serum into the transport vial and cap the vial. Store sample at the appropriate temperature as indicated for the testing requested. Do not pour a sample without a gel barrier into a specimen transport vial.

Using the pipette technique is the appropriate method to remove serum or plasma from a non-gel barrier tube. Send ONLY the transport vial to the laboratory for testing. DO NOT send the original tube.
Microtainer Tubes

- Place microtainer collection tube into a plain red-top 10 mL tube.
- Cap the plain red-top 10 mL tube. Make sure the microtainer AND the plain red-top tube are labeled with the patient’s name and second identifier.

Frozen Samples

- **DO NOT FREEZE GLASS TUBES!**
- Never leave frozen samples in your lock box unless they are stored in Sonora Quest Laboratories ConstanTemp Frozen Specimen Totes. These totes can be requested by contacting our Logistics Department at 602.685.5052 or 520.886.8101. However, to ensure specimen stability, it is recommended that frozen samples be stored frozen in your office for pick up on the following business day rather than being left in a lock box.
- Make sure frozen samples are labeled with the patient name and a second identifier, date drawn, sample type (serum, plasma, etc.), and, if timed testing, label each sample with collection times (fasting, 30 minutes, etc.).
- Check specimen requirements to see if serum or plasma needs to be aliquotted into a plastic vial prior to freezing.

Submission of Laboratory Orders

All tests submitted under a single order number are required to be collected on the same day, which is considered the date of service by government payors. Order numbers may not be used more than one time. Please use the following guide to assist in the ordering process used by your office:

<table>
<thead>
<tr>
<th>IF</th>
<th>THEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>All samples are to be collected in your office on the same day</td>
<td>Submit all testing requested under a single order number</td>
</tr>
<tr>
<td>Only some of the samples will be collected in your office on the same day, and the patient will have the remainder collected by a Patient Service Center or other facility</td>
<td>Submit using 2 order numbers - 1 for the samples being collected in your office and 1 for the samples to be collected at a later time</td>
</tr>
<tr>
<td>None of the samples will be collected in your office - patient is being sent to a Patient Service Center</td>
<td>Submit the testing requested under a single order number; if any samples are unable to be collected (urine, fasting, etc.), they will be assigned a separate order number by the Patient Service Center staff</td>
</tr>
</tbody>
</table>

Please note that orders received by the laboratory that do not include all necessary samples for the testing requested will be managed using the following process:

<table>
<thead>
<tr>
<th>IF</th>
<th>THEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A single order is received and only some of the samples are submitted to the laboratory</td>
<td>The order will be held open until all samples for the day are processed; if all samples are not received, the tests with no samples will be cancelled with the notation of “no sample received”</td>
</tr>
<tr>
<td>Samples from the example above are sent to the laboratory after the initial order has reported and the testing was cancelled</td>
<td>A new order will be created using the provided collection date; testing will be performed and reported</td>
</tr>
</tbody>
</table>