



**ADVANCED GENOMICS**  
Innovative Diagnostics

# UTI PANEL

## COLLECTION INSTRUCTIONS

281-888-5158

info@advancedgenomics.care

10750 Hammerly Blvd  
#120  
Houston, Texas 77043

www.advancedgenomics.care

### MATERIALS PROVIDED

- 1 Urine Sample Collection Cup
- 1 Urine Sample Transfer Tube
- 1 Antiseptic Towelette
- 1 Specimen Bag
- 1 UPS/FedEx Clinical Pak & Label

### SPECIMEN HANDLING

- Use freshly clean-catch collected specimens for optimal test performance.
- Specimens can be stored at room temperature and shipped the same date as collected.
- If a delay in sample processing is expected, store urine specimens refrigerated and ship the next day.
- If collections are done on Friday, freeze the samples, and ship on Monday with ice packs.

### SPECIMEN REJECTION

- Specimens not collected or shipped as instructed.
- Incomplete specimen labeling or documentation.
- Inappropriate specimen type.
- Received non-frozen specimen in laboratory after 72 hrs from collection.

### TESTS INCLUDED

#### Bacteria

Anaerococcus spp  
Acinetobacter baumannii  
Citrobacter spp  
Enterobacter cloacae  
Enterococcus spp  
Escherichia coli  
Klebsiella aerogenes  
Klebsiella oxytoca  
Klebsiella pneumoniae  
Morganella morganii  
Proteus spp  
Providencia stuartii  
Pseudomonas aeruginosa  
Staphylococcus saprophyticus  
Streptococcus agalactiae

#### Fungi

Candida spp.  
Candida glabrata  
Candida krusei

#### ABR Panel

Carbapenemase Genes (NDM, KPC, OXA-48, VIM, IMP)  
Extended Spectrum Beta-Lactamase (ESBL) gene (CTX-M)  
Vancomycin Resistance Genes (VanA, VanB)  
Oxacillin/Methicillin Resistance Gene (MecA)  
Sulfanamide Resistant Genes (SUL1, SUL2, SUL3)  
Trimethoprim Resistant Genes (dfrA1, dfrA5, dfrA12, dfrA17)  
Plasmid-Mediated Fluoroquinolone Resistance Marker (QnrS)  
Marcolide Resistant Genes (MefA, MrsA, ermA, ermB, ermC, ereA, mphA)



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### CLEAN CATCH URINE COLLECTION PROCEDURE

A first morning sample or sample collected longer than 1–2 hours since prior urination maximizes sensitivity of detecting urinary system pathogens.

### Patient Instructions

- 1. Wash Hands:** Begin by thoroughly washing your hands with soap and warm water to prevent transferring bacteria to the collection area.
- 2. Prepare Materials:** Have the sterile urine collection cup ready.
- 3. Genital Area Preparation:**
  - **Females:**
    - Use sterile wipes to clean the genital area from front to back before urinating. Hold the labia apart during the entire process.
  - **Males:**
    - Clean the tip of the penis with sterile wipes. If uncircumcised, retract the foreskin to expose the urethra.
- 4. Begin Urination:**
  - Start urinating into the toilet to clear out any bacteria that may be present at the opening of the urethra.
- 5. Collect Midstream Urine:**
  - After the initial flow, position the collection cup to catch the urine midstream without stopping the flow. Collect about 10-15 mL.
- 6. Finish Urinating:** Continue to urinate into the toilet after you have collected enough urine in the cup.
- 7. Secure the Sample:**
  - Tighten the cap on the urine collection cup to avoid any leaks and contamination.
- 8. Wash Hands Again:** Wash your hands after handling the urine sample.
- 9. Return the Sample:** Return the urine sample to the healthcare provider or laboratory as instructed.




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### COLLECTING URINE USING A VACUTAINER URINE COLLECTION CUP

## Clinical Technician Instructions

### 1. Prepare for Sample Handling:

- **Wear Gloves:** Don gloves to maintain sterility and prevent contamination.

### 2. Set Up the Vacutainer System:

- **Prepare the Urine Collection Cup:** Ensure that the Vacutainer Urine Collection Cup, which includes a built-in transfer device, is ready for use. Confirming that the cup and transfer device are properly sealed and connected.

### 3. Collect Urine Sample:

- **Instruct the patient to collect the 10-15 mL of urine sample into the collection cup, then securely close the lid to ensure no leaks and to maintain sterility.**

### 4. Transfer Urine to Vacutainer Tube:

- Attach the Vacutainer Tube:** Align the top of the Vacutainer urine transfer tube with the transfer device attached to the cup's lid. The device has a needle protected by a sheath.
- Initiate Transfer:** Press the tube downward onto the device to puncture the seal. This action allows urine to flow directly from the collection cup into the vacutainer tube.
- Monitor Filling:** Observe the urine level as it fills the vacutainer tube. Ensure it fills up to the designated mark but does not overflow.
  - Container may be tipped at an angle if specimen volume is limited.

### 5. Label the Sample:

- **Label the Sample:** Properly label the vacutainer tube with patient identification details, date, and time of collection for accurate shipping, tracking, and testing.

### 6. Discard the Urine Cup:

- **Do not ship the urine cup. Discard appropriately.**



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### VACUTAINER URINE COLLECTION CUP INSTRUCTIONS






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### COLLECTING URINE FROM A CATHETERIZED PATIENT

Specimen collection from patients with indwelling catheters requires aseptic technique.

## Clinical Technician Instructions

#### 1. Prepare for the Procedure:

- **Wear Gloves:** Put on sterile gloves to maintain aseptic technique and prevent contamination.
- **Gather Supplies:** Ensure you have all necessary equipment, such as a sterile syringe, specimen vacutainer cup, 70% ethanol, and vacutainer tube.

#### 2. Access the Catheter:

- **Identify Catheter Port:** Locate the sampling port on the catheter, which is typically a small, capped section designed for needle access or syringe attachment.
- **Clean the Port:** Use 70% ethanol to thoroughly clean the catheter port. Allow the ethanol to dry to effectively kill any bacteria present.

#### 3. Collect the Urine Sample:

- **Clamp the Catheter:** Temporarily clamp the catheter tubing just above the sampling port to prevent urine flow and allow fresh urine to accumulate in the tube. Minimum of 2 mL of urine is required.
- **Attach the Syringe:** Uncap the port and attach a sterile syringe directly to the sampling port. If the port has a Luer lock, secure the syringe by twisting it into place.
- **Aspirate Urine:** Gently pull the plunger of the syringe to withdraw 10-15 mL of urine from the catheter tubing into the Urine Vacutainer Cup.
- **Unclamp the Catheter:** Immediately after collecting the sample, remove the clamp to allow urine to flow freely again.

#### 4. Transfer Urine to Vacutainer Tube:

- a. **Attach the Vacutainer Tube:** Align the top of the Vacutainer urine transfer tube with the transfer device attached to the cup's lid. The device has a needle protected by a sheath.
- b. **Initiate Transfer:** Press the tube downward onto the device to puncture the seal. This action allows urine to flow directly from the collection cup into the vacutainer tube.
- c. **Monitor Filling:** Observe the urine level as it fills the vacutainer tube. Ensure it fills up to the designated mark but does not overflow.
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- **Label the Sample:** Properly label the vacutainer tube with patient identification details, date, and time of collection for accurate shipping, tracking, and testing.

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- **Do not ship the urine cup.** Discard appropriately.



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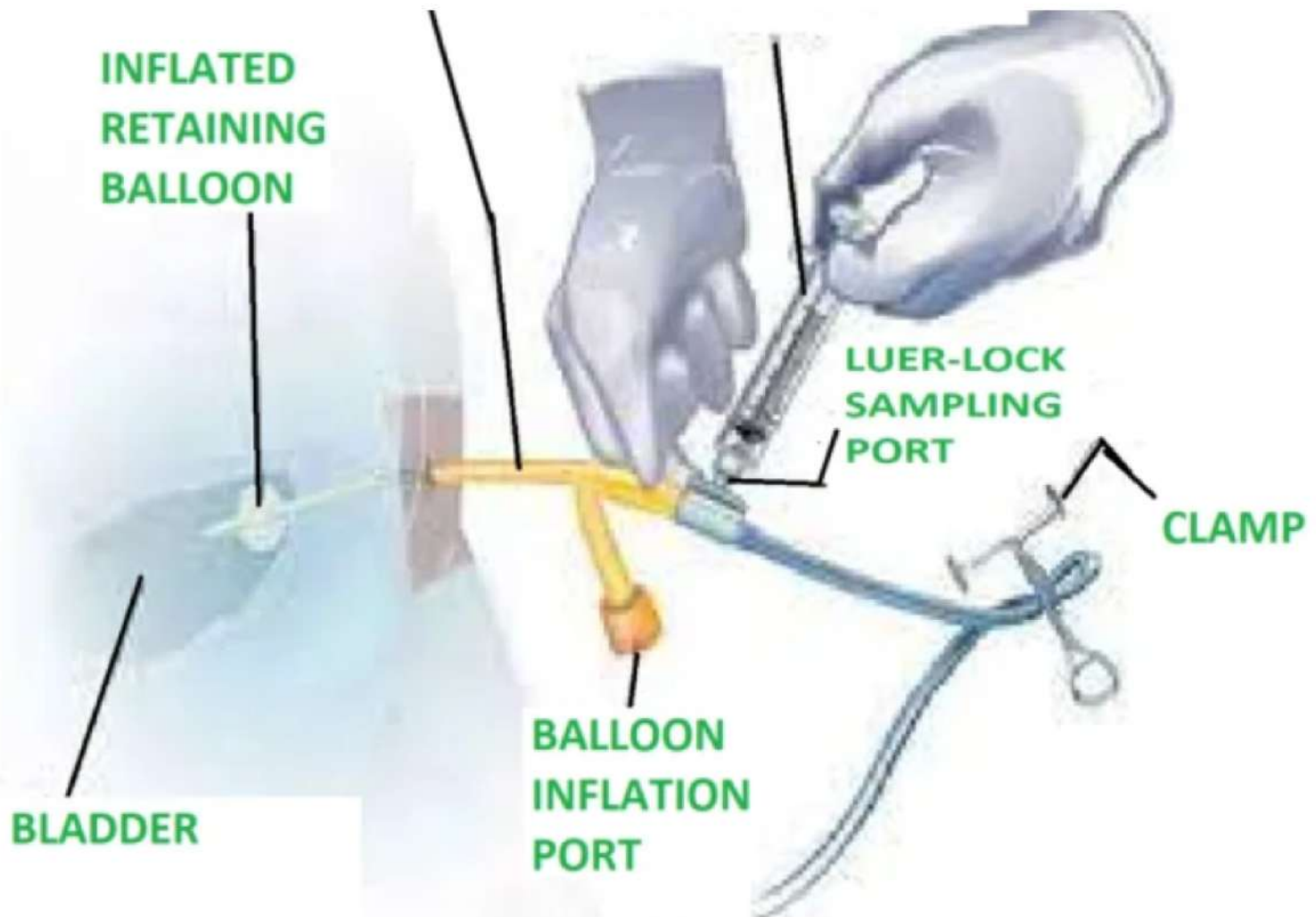
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**URINE SPECIMEN TAKEN FROM CATHETER**