



PRIMEDIAGNOSTICS

Specimen Collection Guide

Collection Device Overview

The following images are courtesy of Thermo Scientific, Cooper Surgical, Greiner Bio-One, Copan, Platinum Code, BD Vacutainer, and Tanner Scientific.

Urine Collection Devices

UTI ID Complete
Culture & Sensitivity
Sexually Transmitted Diseases
(Urine STI Panel)
Urinalysis
Urine Micro Albumin
Urine Protein
Urine Creatine



Culture and Sensitivity Tubes with Additive



Sterile Urine Transport Tubes for UTI Panel



Sterile Urine Cups

Please use only ONE of the 2 devices pictured above

Respiratory Collection Devices

Viral Targets
Influenza Panel
Common Cold Panel
Respiratory Syncytial Virus A/B
Bacterial Targets
Strep Differentiation (A,B,C,&G)
Throat Culture
SARS-COV-2019
SARS-COV



Liquid AMIES Green Top (Mini) E-Swab
Mini/Reg. Swab

White Top E-Swab

STI Collection Devices

STI Panel



AMIES Swab (Red Top) E-Swab
AMIES Swab (White Top)

Gastrointestinal Collection Devices

Bacterial Gastroenteritis Targets
Viral Gastroenteritis Targets
Stool Parasites
Clostridium Difficile
Helicobacter Pylori



Specimen Cups

Wound Collection Device



White Top E-Swab

Dry - Swab

Nail Collection Device



White Top E-Swab

Specimen Cups

Applicable Panels

Urinalysis Urine Micro Albumin Urine Protein UTI Panel Complete
Urine Creatine Sexually Transmitted Diseases (Urine STI Panel)

Clean Catch Collection Procedure

Male

1. Wash Hands using soap and warm water.
2. IF uncircumcised, retract foreskin and wipe end of penis with a fresh towelette.
3. Allow a small amount of urine to fall in toilet bowl. **DO NOT** touch inside of sterile urine cup.
4. Collect urine stream into sterile urine cup. Be sure 3/4 of cup is filled.

Female

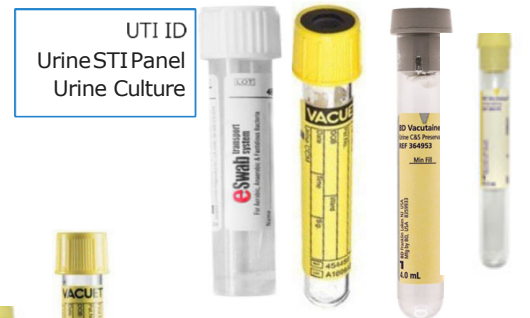
1. Wash Hands with soap and warm water.
2. Spread the labia (folds of skin) apart with one hand and wipe with a towelette. Wipe from front to back.
3. Continue holding the labia apart. Allow a small amount of urine to fall in toilet bowl. **DO NOT** touch inside of sterile urine cup.
4. When using a potty collection pan, urinate in pan and transfer urine to sterile urine cup. Be sure 3/4 of cup is filled.

Post Collection/Transport Procedure

Collection devices shown are applicable to revision date located in top right corner of this document.

1. Peel/remove white sticker on lid of sterile urine cup, exposing black vacutainer needle.
2. Place yellow C&S tube and U/A transport tube upside down on top of black exposed vacutainer needle.
CAUTION NEEDLE IS SHARP
3. Apply downward pressure until vacutainer needle punctures small rubber cap on C&S tube and U/A transport tube.
4. Confirm patients Identifiers are listed and legible on tube(s). Name and DOB on tube(s) have to match name and DOB on ordering requisition. **IMPORTANT: Ship urine transport tube. DO NOT SHIP URINE CUP***
5. For using White Top E-Swab, Deep the Swab in Sterile Urine Cup for 3 Second, Insert swab back into its media vial, holding the swab shaft close to the rim of the tube, and keeping the tube away from your face, break the applicator shaft at the pink breakpoint indication line.
6. Place ordering requisition in side pocket of specimen bag. Place U/A transport tube and C&S tube in sealable portion of specimen bag, properly seal specimen bag.
7. Store specimen(s) at 2 to 8 °C till ready to ship.
8. Using your pre-determined shipping method, prepare package/specimen for shipment/pick-up.

C&S tube(s) with Additive
Any tube is acceptable.



UTI ID
Urine STI Panel
Urine Culture



Sterile urine transport tube(s)
Any tube is acceptable.

Urinalysis
Urine Micro Albumin
Urine Protein
Urine Creatine
Urine STI Panel

Sterile urine cup(s) with or without vacutainer
needle Any cup is acceptable.



Used for Urine Collection and transferring to both urine transport tube, and C&S tube.

Viability:

Refrigerated (4 to 8 °C) = 72 hours

Room Temperature (20 to 25 °C) = 48 hours

Applicable Panels

Viral Targets Influenza Panel Common Cold Panel Respiratory Syncytial Virus A/B
Bacterial Targets Strep Differentiation (A, B, C,G), SARS-COV-2019

Collection Procedure

Nasal

1. Request the patient to clear the nasal sputum.
2. Remove swab from plastic packaging. Avoid touching the swab applicator below the pink molded breakpoint.
3. Ask patient to tilt his/her head back. Insert swab approximately 1-2 inches into nostril.
4. Rotate swab against the inside of nostril for 3 seconds. Apply slight pressure with a finger on the outside of the nose to help assure good contact between the swab and the inside of the nose.
5. Insert swab back into its media vial, brush end first.
6. Holding swab shaft close to the rim of tube, and keeping the tube away from your face, break the applicator shaft at the pink breakpoint line.
7. Screw the cap on tightly to prevent leakage.

Viral Targets
Influenza Panel
Common Cold Panel
Respiratory Syncytial Virus A/B
Bacterial Targets
Strep Differentiation (A,B,C,G)
Throat Culture
SARS-COV-2019

Be sure Collection Device used reflects AMIES Label

Post Collection/Transport Procedure

1. Confirm that the information on the completed Infectious Diseases Test Requisition Form matches the Swab Container.
2. Place the Swab container into the specimen bag along with the ordering requisition form and seal.
3. The package is now ready for bulk shipment via UPS/ FedEx or courier.
4. Place specimen at 4 to 8 °C till it is ready to ship.



Red Top VTM Media Green E-Swab (Mini) White Top Liquid AMIES

Please use only ONE of the 4 devices pictured above

Viability:

Refrigerated (4 to 8 °C) = 72 hours

Room Temperature (20 to 25 °C) = 48 hours

Vaginal STI Collection Guide

Applicable Panels

Bacterial Vaginosis Aerobic Vaginitis Candidiasis Panel
STI Complete panel

Collection Procedure

1. Remove swab from plastic packaging. Avoid touching the swab applicator below the pink molded breakpoint.
2. Carefully insert swab into the opening of vagina, about two inches, and gently rotate the swab for 10 to 30 seconds. Make sure the swab touches the walls of the vagina so that moisture is absorbed into the swab.
3. Withdraw swab without touching skin.
4. Insert swab back into media vial, brush end first.
5. Holding the swab shaft close to the rim of the tube, and keeping the tube away from your face, break the applicator shaft at the pink breakpoint line.
6. Screw the cap on tightly to prevent leakage.

Post Collection/Transport Procedure

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1. Confirm patient information on ordering requisition form matches patient information on specimen tube.
2. Place sample into specimen bag, along with the ordering requisition form and seal specimen bag.
3. The package is now ready for bulk shipment via UPS/FedEx .
4. Place specimen at 2 to 8 °C till it is ready to ship.



Viability:

Refrigerated (2 to 8 °C) = 72 hours

Room Temperature (20 to 25 °C) = 48 hours

Gastrointestinal Collection Guide

Applicable Panels

Bacterial Gastroenteritis Targets Viral Gastroenteritis Targets Stool Parasites
Clostridium Difficile Helicobacter Pylori Blood Fecal Occult

Collection Procedure

1. Remove swab from plastic packaging. Avoid touching swab applicator below the pink molded breakpoint as this could lead to contamination and incorrect test results.
2. Pass Stool into a clean, dry pan.
3. Collect a small amount of stool by inserting all the tip of the swab into stool sample and rotate it.
4. Remove and examine to make sure fecal material is visible on the swab.
5. Once completed, insert swab back into its media vial tube, brush end first.
6. Holding the swab shaft close to the rim of the tube, and keeping the tube away from your face, break the applicator shaft at the pink breakpoint indication line.
7. Screw the cap on tightly to prevent leakage.

Post Collection/Transport Procedure

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1. Confirm patient information on requisition form matches the information on collection tube
2. Place the collection tube into specimen bag along with ordering requisition form, seal specimen bag.
3. The package is not ready for bulk shipment via UPS/FedEx .
4. Store specimen at 2 to 8 °C till ready to ship.

Fecal Swab & E-Swab

Bacterial Gastroenteritis Targets
Viral Gastroenteritis Targets
Stool Parasites
Clostridium Difficile
Helicobacter Pylori



Viability:

Refrigerated (2 to 8 °C) = 72 hours

Room Temperature (20 to 25 °C) = 48 hours



Sterile Urine Cups

Sterile urine cups are used to transport physical stool to perform Blood Fecal Occult.



Stool Collection Pan

Used by patient to collect physical stool.



Wound & Nail Collection Guide

Applicable Panels

BACTERIAL (AEROBIC/ANAEROBIC), FUNGAL COLLECTION SWAB WITH ESWAB TRANSPORT

Collection Procedure

Wound

1. Wash the wound with saline and wipe lightly.
2. Remove the swab from its plastic packaging. Avoid touching the swab applicator below the pink molded breakpoint.
3. Consult with physician about wound collection. Generally, Roll the swab in the wound by applying appropriate pressure. Try to get enough material on swab.
4. Insert the swab back into its media vial, brush end first.
5. Holding the swab shaft close to the rim of the tube, and keeping the tube away from your face, break the applicator shaft at the pink breakpoint line.
6. Screw the cap on tightly to prevent leakage.

Nail

1. Clean the nails with alcohol wipes.
2. Using sterile nail clippers, clip infected nail.
3. Add all the nail clippings in 2mL tube and close it tightly

Post Collection/Transport Procedure

1. Confirm patient information on requisition form matches the information on collection tube
2. Place the collection tube into specimen bag along with ordering requisition form, seal specimen bag.
3. The package is not ready for bulk shipment via UPS/FedEx .
4. Store specimen at 2 to 8 °C till ready to ship.

Viability:







Refrigerated (2 to 8 °C) = 72 hours

Room Temperature (20 to 25 °C) = 48 hours

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Blood Collection - Order of Draw

Collection Tube	Additive Number of Inversions	Mode of Action Testing Disciplines	Uses Comments
 Light Blue Top (3ml)	Sodium Citrate 4 Inversions	Forms calcium salts to remove calcium. Coagulation	Coagulation (protime and prothrombin time) If winged collection is used AND coagulation sample is drawn first, a discard tube is recommended to be drawn prior to this tube to ensure proper anticoagulation to blood ratio.
Plain Red Top (7.5 ml)  Plain Red Top (10 ml)	White Top = Clot Activator 5 - 10 Inversions	Blood clots, and the serum is separate by centrifuge. Chemistry, Immunochemistry, Immunochemistry, Viral Markers	Chemistries, Immunology and Serology, Blood Bank (Crossmatch) 60 minutes minimum clot time is required. Incomplete or delayed mixing may result in delayed clotting.
SST Tube (7 ml)  SST Tube (Tiger Top)	Clot Activator with Gel 5 - 10 Inversions	SST contains a gel at the bottom to separate blood from serum on centrifuge. Chemistry, Immunochemistry, TDMs	Chemistry, Serology or Immunology For complete clotting, 30 minutes minimum clotting time is required. Incomplete or delayed mixing may result in delayed clotting.
 Green Top (9ml)	Lithium Heparin 5 - 10 Inversions	Inactivates thrombin and thromboplastin Chemistry, Immunochemistry	QuantiFERON-TB Gold Plus Tuberculosis (TB Testing)
 Lavender Top (4 ml)	EDTA (K2, K3) 8 - 10 Inversions	Forms calcium salts to remove calcium. Hematology, Immunochemistry, Molecular Diagnostics Viral Markers	Hematology (CBC) requires full draw, Invert 8 times to prevent clotting and platelet clumping.
 Royal Blue Top (6 ml)	Sodium Heparin 5 - 10 Inversions	Tube is designed to contain no contamination metals. Trace Elements	Trace element (Zinc, Copper, Lead, Mercury) Toxicology

Test	Sample type	Prefer Container
Acute Hepatis panel	Serum	SST
Aerobic Culture	Swab	E- Swab
Anerobic Culture	Swab	E- Swab
Acetaminophene (Tylenol)	Serum	Plain Red
AFP, Tumor Marker	Serum	SST
Ammonia	Plasma	EDTA (Purple top tube)
Amylase	Serum	SST
Anemia Panel	Serum	SST
ANA	Serum	SST
ANA non reflex	Serum	SST
APO A1	Serum	SST
APO B	Serum	SST
ASO	Serum	SST
Basic Metabolic Panel	Serum	SST
Beta hCG	Serum	SST
Beta-2 Microglobulin	Serum	SST
Bilirubin, Direct	Serum	SST
Bilirubin, Total	Serum	SST
NT-Pro BNP	Serum	SST

Test	Sample type	Prefer Container
C3- Complement	Serum	SST
C4- Complement	Serum	SST
CA 125	Serum	SST
CA 19-9	Serum	SST
CA 15-3	Serum	SST
Carbamazepine (Tegretol)	Serum	Plain Red
CBC with Auto diff	Whole blood	EDTA (Purple top tube)
CBC without Differential	Whole blood	EDTA (Purple top tube)
CEA	Serum	SST
Ceruloplasmin	Serum	SST
Cholesterol	Serum	SST
CKMB	Serum	SST
Clozaril (Clozapine)	Serum	Plain Red
CMV IgG Ab	Serum	SST
CMV IgM Ab	Serum	SST
Comprehensive Metabolic Panel	Serum	SST
Comprehensive Female Hormone Panel	Serum, Urine, Whole blood	2-SST, 1- EDTA (Purple top tube), 1- Urine Cup
Comprehensive Male Hormone Panel	Serum, Urine, Whole blood	2-SST, 1- EDTA (Purple top tube), 1- Urine Cup
Cortisol	Serum	SST
C-Peptide	Serum	SST
CK	Serum	SST
C-Reactive Protein	Serum	SST
Creatinine Random	Urine	Urine Cup
Creatinine Clearance	Urine	24 hour Urine
Creatinine 24 Hrs	Urine	24 hour Urine
CRP HS	Serum	SST
Cystatin C	Serum	SST
DHEA-S	Serum	SST
D- Dimer	Whole Blood	EDTA (L-Blue top tube)
Digoxin (Lanoxin)	Serum	SST
Phenytoin	Serum	Plain Red

Test	Sample type	Prefer Container
ELECTROLYTE PROFILE	Serum	SST
Estradiol	Serum	SST
FSH	Serum	SST
Ferritin	Serum	SST
Folate	Serum	SST
Gentamicin	Serum	SST
GGT	Serum	SST
Globulin, Calculated	Serum	SST
Glucose _Hrs. P. P	Whole blood	Sodium Fluoride (Grey top tube)
Glucose, Fasting	Whole blood	Sodium Fluoride (Grey top tube)
Glucose, Random	Whole blood	Sodium Fluoride (Grey top tube)
Growth Hormone	Serum	SST
GTT	Serum	SST
H. Pylori Ag	Stool	STL
Haptoglobin	Serum	SST
Hb Electrophoresis	Whole blood	EDTA (Purple top tube)
Hemoglobin A1C(Hba1c)	Whole blood	EDTA (Purple top tube)
Hepatic Panel	Serum	SST
Hepatitis A Ab	Serum	SST
Hepatitis A IgM	Serum	SST
Hepatitis B Core Ab Ref IgM	Serum	SST
Hepatitis B Surf Ab	Serum	SST
Hepatitis B Surf Ag Reflex Con	Serum	SST
Hepatitis C Ab	Serum	SST
HERPES SIMPLEX 1 AB	Serum	SST
HERPES SIMPLEX 2 AB	Serum	SST
HIV 1/2 AB/AG RFLX CON	Serum	SST
Homocysteine	Serum	SST
HSV 1& HSV-2 IgG	Serum	SST
HSV-1 & 2 By PCR	Swab	E-swab
Insulin	Serum	SST

Test	Sample type	Prefer Container
Iron	Serum	SST
Immunoglobulin IgG, IgM, IGA	Serum	SST
Iron Deficiency Panel	Serum	SST
LDH	Serum	SST
Lead	Whole blood	EDTA (Purple top tube)
LH	Serum	SST
LIPID panel	Serum	SST
Lipase	Serum	SST
Lipid panel with reflex direct LDL	Serum	SST
Lipid panel with CAL VLDL	Serum	SST
Lithium (Eskalith)	Serum	SST
Lyme (B. burgdorferi) IgG/IgM	Serum	SST
Magnesium	Serum	SST
Measles Ab, IgG	Serum	SST
Microalbumin	Urine	Urine Cup
Myositis panel	Serum	SST
MMR Panel	Serum	SST
Mumps IgG	Serum	SST
Myoglobin	Serum	SST
Nortriptyline	Serum	Plain Red
Oxcarbazepine	Serum	Plain Red
Pap Test, THINPREP REFLEX HPV	Vaginal	Preservcyt collection container
Pap Test, Sure path	Vaginal	Collection vial
Phosphorus	Serum	SST
Progesterone	Serum	SST
Prolactin	Serum	SST
Protein 24 hrs.	Urine	24 hours Urine
Protein, Total	Serum	SST
PSA w/Reflex to Free PSA	Serum	SST

Test	Sample type	Prefer Container
PSA, Total	Serum	SST
PT/INR	Whole Blood	EDTA (Light blue top tube)
PTH, Intact	Serum	SST
PTT	Whole Blood	EDTA (Light blue top tube)
RENAL Panel	Serum	SST
Reticulocyte Count	Whole blood	EDTA (Purple top tube)
RF	Serum	SST
RPR w/ reflex	Serum	SST
Rubella Ab IgG	Serum	SST
Salicylic Acid (salicylates)	Serum	SST
Sed Rate (ESR)	Whole blood	EDTA (Purple top tube)
SHBG	Serum	SST
Sickle Screen	Whole blood	EDTA (Purple top tube)
Serotonin Level	Serum	SST
Standard Male Wellness Panel	Serum, Urine, Whole blood	2-SST, 1- EDTA (Purple top tube), 1- Urine Cup
Standard Female Wellness Panel	Serum, Urine, Whole blood	2-SST, 1- EDTA (Purple top tube), 1- Urine Cup
Stool, Occult Blood	Stool	STL
Thyroid Comprehensive panel	Serum	SST
Thyroid Panel	Serum	SST
Toxoplasma Gondii IgG	Serum	SST
Toxoplasma Gondii IgM	Serum	SST
TPO Antibody	Serum	SST
Transferrin	Serum	SST
Triglycerides	Serum	SST
Tryptase	Serum	SST
TSH	Serum	SST
T-uptake	Serum	SST

Test	Sample type	Prefer Container
T3, Free	Serum	SST
T3, Total	Serum	SST
T4, Free	Serum	SST
T4, Total	Serum	SST
TB QuantiFE ON®-Gold	Whole blood	QFT
Testosterone	Serum	SST
Theophylline (Elixophyllin)	Serum	Plain Red
Thyroglobulin Ab	Serum	SST
Thyroid Panel	Serum	SST
Total Bilirubin	Serum	SST
Urine Drug Screen	Random Urine	Urine Cup
Urine pregnancy, test	Urine	Urine cup
Urinalysis	Random Urine	Urine Cup
Uric Acid, serum	Serum	SST
Uric Acid, 24 hrs	Urine	24 hours Urine
UIBC	Serum	SST
Urine Drug Screen	Random Urine	Urine Cup
Urine pregnancy, test	Urine	Urine cup
Urinalysis	Random Urine	Urine Cup OR UA Preservative
Valproic Acid (Depakote level)	Serum	SST
Vancomycin	Serum	Plain Red
Varicella Zoster IgG	Serum	SST
VIT B12+Folate Deficiency Panel	Serum	SST
VIT B12	Serum	SST
VIT D 25 Hydroxy	Serum	SST
VDRL	Serum	SST

Urine Drug Screen		
Amphetamine (AMPH)	Random Urine	Urine Cup
Barbiturates (BARM)	Random Urine	Urine Cup
Benzodiazepines (BENZ)	Random Urine	Urine Cup
Cocaine (COCA)	Random Urine	Urine Cup
Opiates (OPIA)	Random Urine	Urine Cup
Phencyclidine (PCP)	Random Urine	Urine Cup
Cannabinoids-THC	Random Urine	Urine Cup
Methadone (METH)	Random Urine	Urine Cup
14 panel Urine Drug screen With Reflex	Random Urine	Urine Cup

Sample Type	Preferred Container
S = Serum	EDTA = EDTA(Lavender Top) Tube
P = Plasma	SST = Serum Separator Tube (SST)
WH = Whole Blood	UTT = Urine Transport Tube
SP = Serum or Plasma	PR/W = Plain Red or White Top Tube
ST = Stool	UR = Urine Cup
RU = Random Urine	EDTAP = EDTA Plasma Transport Tube
UCVU = Urethral, Cervical, Vaginal, or Urine	UR24 = 24 Hour Urine