

AHRO Laboratories/ Catalog of Tests A to C

Disclaimer

PDF DISCLAIMER LEGAL NOTICE: This PDF was requested on 12/20/2023 and will be made available in the Lucidoc application until midnight on the requested day. PDFs should not be used as official documentation. Contents of official documents are subject to change without notice. Lucidoc makes no representation or warranty whatsoever regarding the completeness, accuracy, "up-to-dateness", or adequacy of the information or materials contained herein. Please refer to Lucidoc for the most up to date information.

CONFIDENTIALITY LEGAL NOTICE: This PDF may contain confidential information and is intended solely for the addressee. The information may also be legally privileged. This transmission is sent in trust, for the sole purpose of delivery to the intended recipient. If you have received this transmission in error, any use, reproduction, or dissemination of this transmission is strictly prohibited. If you are not the intended recipient, please immediately notify the sender and permanently delete this file.

Approvals

- Signature: Karen E Corson, Director, Laboratory signed on 7/22/2020, 2:43:05 PM
 - Signature: Alexandra Reichman, Physician signed on 7/22/2020, 4:13:21 PM
 - Signature: Karen E Corson, Director, Laboratory signed on 4/26/2022, 4:24:25 PM
 - Signature: Alexandra Reichman, Physician signed on 4/28/2022, 9:35:58 AM
-

Revision Insight

Document ID: 27137
Revision Number: 3
Owner: Edgar Ferrusquia, Laboratory Supervisor
Revision Official Date: 7/22/2020

Revision Note:

removed antibody titer and edit blc pediatric 1-3 ml. Change header from FRHG to AHRO[Owner changed from Jagdon, Mabtex C to Ferrusquia, Edgar by Merrill, Deborah on 01-FEB-2022]

[Added at review/expire: No change.]

[Marked as Reviewed on 4/26/2022 by Edgar Ferrusquia: Next Review Date is 4/26/2024.]



Subject/Title: AHRO Laboratories/Catalog of Tests A to C

Catalog Format: Review the following alphabetical listing of our lab test catalog for each of our offered tests. Each page has at least the following elements:

Test Name

Alternate Test Name

LIS/HIS Code

Storage/Transportation

Specimen Requirements

Optimal Volume

Minimal Volume

Post Testing Storage

Patient Preparation

Collection Instructions

Reference Ranges

Methodology

Additional Information

AHRO Laboratories/Catalog of Tests A to C

Venous Blood Gas	
Alternate Test Name:	Venous Blood Gas, Blood Gas VBSAS
LIS/HIS Code	VBSAS
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	30 minutes at Room Temp >30 minutes ON ICE
Specimen Requirements	Whole blood in syringe or capillary tube containing balanced heparin or lithium heparin.
Optimal Volume	3.0 mL
Minimal Volume	1.0 ml
Post Testing Storage	Not Applicable
Patient Preparation	None
Reference Ranges	pH 7.32-7.42 pCO ₂ 41-51 mmHg pO ₂ 25-40 mmHg HCO ₃ 22-32 mmol/L sO ₂ 45-70 %
Methodology	Siemens RapidPoint 505
Additional Information	Immediately after sample collection: Remove any air Cap the device Mix the sample thoroughly before analyzing
ABO/Rh	

AHRO Laboratories/Catalog of Tests A to C

Alternate Test Name:	Blood Typing
LIS/HIS Code	ABORh
Lab Tested At	AHRO
Department	Transfusion Services
Storage and Transportation	Ambient temperature
Specimen Requirements	EDTA Whole Blood Pink Capped Tube
Optimal Volume	6.0 mL
Minimal Volume	3.0 mL
Post Testing Storage	1 week at 2 – 8°C
Patient Preparation	None
Reference Ranges	ABO Rh Type for presence or absence
Methodology	Anti-Sera Agglutination
Additional Information	

Absolute Eosinophils

Alternate Test Name:	Total Eosinophils
----------------------	-------------------

AHRO Laboratories/Catalog of Tests A to C

LIS/HIS Code	EOCT/1381
Lab Tested At	AHRO
Department	Hematology
Storage and Transportation	Ambient temperature
Specimen Requirements	EDTA Whole Blood
Optimal Volume	1.0 mL
Minimal Volume	100 µL
Post Testing Storage	Ambient Temperature for 4 hours
Patient Preparation	None
Reference Ranges	Newborn (<24 hours): 20 – 850/ µL 12 months: 50 – 700/ µL Adult: 0 – 450/ µL
Methodology	Calculated value using % Eosinophils times total RBC
Additional Information	

Acetaminophen

Alternate Test Name: Tylenol

AHRO Laboratories/Catalog of Tests A to C

LIS/HIS Code	ACETA LVL
Lab Tested At	AHRO
Department	Chemistry
Transportation/Storage	6 weeks at 2-8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	Draw 1 hour post oral dose if dose is known
Reference Ranges	10-30 µg/mL
Methodology	Homogeneous Enzyme Immunoassay (EMIT)
Additional Information	Note the last dose time and date with requisition/order.

Albumin (Blood)

Alternate Test Name:

AHRO Laboratories/Catalog of Tests A to C

LIS/HIS Code	ALB
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	7 Days Room Temp /30 days at 2 – 8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	Blood: 3.5-5.3 gm/dL
Methodology	Bromcresol Green by Timed-endpoint
Additional Information	

ALP

Alternate Test Name:	Alkaline Phosphatase
----------------------	----------------------

AHRO Laboratories/Catalog of Tests A to C

LIS/HIS Code	ALP
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	4 days at 2 – 8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	32 – 126 U/L
Methodology	Enzymatic Rate
Additional Information	

AHRO Laboratories/Catalog of Tests A to C

ALT	
Alternate Test Name:	SGPT, Alanine Aminotransferase
LIS/HIS Code	ALT
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	3 days at 2 – 8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	7-52 U/L
Methodology	Enzymatic Rate
Additional Information	

AHRO Laboratories/Catalog of Tests A to C

Amphetamine (Urine Only)	
Alternate Test Name:	Methamphetamine
LIS/HIS Code	AMPHMECCONF
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	7 days Room Temp/ 30 Days @ 2 – 8°C
Specimen Requirements	Random Urine
Optimal Volume	15 mL to allow for confirmation testing if needed.
Minimal Volume	1.0 mL
Patient Preparation	None
Reference Ranges	Negative (cutoff at 1000 ng/mL)
Methodology	Homogeneous Enzyme Immunoassay (EMIT)
Additional Information	If this test is found to be Indeterminate, it is sent to a reference lab for confirmation. LIS Code: AMPHMECCONF

Ammonia	
----------------	--

AHRO Laboratories/Catalog of Tests A to C

Alternate Test Name:	NH3
LIS/HIS Code	AMMONIA
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	Draw into an EDTA purple tube and place on ice. Ammonia samples are stable 3 hours at 2-4°C if plasma is removed from cells.
Specimen Requirements	EDTA (purple tube) on ice and immediately delivered to the lab. The EDTA should be completely filled.
Optimal Volume	3.0 mL
Minimal Volume	The collection tube should be completely filled.
Patient Preparation	None
Reference Ranges	19 – 60 µmol/L
Methodology	Enzymatic Rate
Additional Information	Hemolyzed specimens are not acceptable. Ammonia is stable for 3 hours at 2-4°C if removed from the cells. The collection tube should be completely filled.

Amylase (Blood or OBF or Urine, Random)

Alternate Test Name:

AHRO Laboratories/Catalog of Tests A to C

LIS/HIS Code	Blood: AMY OBF: BF AMY Urine, Random: UAMYR
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	7 days at Room Temp / 30 days at 2 – 8 °C
Specimen Requirements	Heparinized Plasma or Serum or OBF or Urine, Random
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	Blood: 30 – 130 U/L OBF/Urine, Random: NA
Methodology	Enzymatic Rate
Additional Information	In urine, an acid pH may make the enzyme less stable; therefore pH should be adjusted to approximately 7.0 before storage.

APT

Alternate Test Name:	Fetal Hemoglobin
----------------------	------------------

AHRO Laboratories/Catalog of Tests A to C

LIS/HIS Code	FHGB/10490
Lab Tested At	AHRO
Department	Hematology
Storage and Transportation	Specimen must be tested as soon as it arrives. Transport to FMC at ambient temperature.
Specimen Requirements	Bloody stools of newborns or blood emesis of newborns, or bloody vaginal discharge at delivery or during pregnancy
Optimal Volume	1.0 mL
Minimal Volume	0.2 mL
Post Testing Storage	Ambient Temperature
Patient Preparation	None
Reference Ranges	Positive: Presence of fetal hemoglobin Negative: No fetal hemoglobin present
Methodology	Alkali Denaturation
Additional Information	A Kleihauer Betke stain may be the method of choice if a mixture of fetal and maternal cells obscures the APT.
AST	
Alternate Test Name:	SGOT, Aspartate Aminotransferase (AST)

AHRO Laboratories/Catalog of Tests A to C

LIS/HIS Code	AST
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	1 Day at Room Temp / 30 days at 2 – 8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	10-39 U/L
Methodology	Enzymatic Rate
Additional Information	
Barbiturate (Urine Only)	
Alternate Test Name:	

AHRO Laboratories/Catalog of Tests A to C

LIS/HIS Code	BARBMECCONF
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	7 days: Room Temp or Refrigerated (2 – 8°C)
Specimen Requirements	Random Urine
Optimal Volume	15 mL to allow for confirmation testing if needed.
Minimal Volume	1.0 mL
Patient Preparation	None
Reference Ranges	Negative (cutoff at 200 ng/mL)
Methodology	Homogeneous Enzyme Immunoassay (EMIT)
Additional Information	If this test is found to be Indeterminate, it is sent to a reference lab for confirmation. LIS Code: BARBIT, HIS Code: 4092U.
Benzodiazepine (Urine Only)	
Alternate Test Name:	

AHRO Laboratories/Catalog of Tests A to C

LIS/HIS Code	BENZCONF
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	7 days: Room Temp or Refrigerated (2 – 8°C)
Specimen Requirements	Random Urine
Optimal Volume	1 mL
Minimal Volume	1.0 mL
Patient Preparation	None
Reference Ranges	Negative (cutoff at 200 ng/mL)
Methodology	Homogeneous Enzyme Immunoassay (EMIT)
Additional Information	

BHOB	
Alternate Test Name	Beta Hydroxybutyrate

Page 15 of 39
Date Approved
Version

AHRO Laboratories/Catalog of Tests A to C

HIS Code / LIS Code	B-HOB
Where Performed	AHRO
Transportation/Storage	30 days at 2-8 °C
Specimen Requirements	Serum or plasma collected with EOTA, Heparin or Sodium Fluoride
Optimal Volume	1 mL
Minimal Volume	0.50 mL
Patient Preparation	None
Reference Ranges	0.02 – 0.27 mmol/L
Methodology	Enzymatic Determination
Additional Information	Universal precaution for venipuncture

AHRO Laboratories/Catalog of Tests A to C

Blood Cultures	
LIS/HIS Code	CBLOOD
Lab Tested At	AHRO: Cultures are held for 5 days before a final “No growth culture” report is sent.
Department	Microbiology
Storage and Transportation	Once collected, store at 37°C. Ambient temperature transport is acceptable.
Specimen Requirements	<p>Whole Blood:</p> <p>Infants: 0.5 – 2.0 mL/venipuncture</p> <p>Children (2 to 12 years) 1 – 5 ml/venipuncture</p> <p>Adults: 16 – 20 mL/venipuncture</p> <p>Myco/F Lytic (Fungus): 1 – 5 mL or 3 – 5 mL optimum/venipuncture</p>
Additional Information	<p><u>Instructions for Collection</u></p> <p>For systemic and localized infections the following is recommended.</p> <ol style="list-style-type: none"> 1) In suspected acute sepsis, meningitis, osteomyelitis, arthritis, or acute untreated bacterial pneumonia, obtain two blood cultures (from two separate venipuncture sites) before starting therapy. 2) For fever unknown origin (e.g., occult abscess, typhoid fever, or brucellosis), obtain two separate blood cultures initially; 24 to 36 hours later, obtain two more just before the expected (usually afternoon) temperature elevation. The yield beyond four cultures is virtually nil. <p>For suspected infective endocarditis the following is recommended:</p> <ol style="list-style-type: none"> 1) Acute – Obtain 3 blood cultures with 3 separate venipunctures during the first 1 to 2 hours of evaluation and begin therapy. 2) Sub acute – Obtain 3 blood cultures on day 1 (ideally 15 minutes or more apart); if all are negative, 24 hours later, obtain three more. From undiagnosed patients who have received antimicrobial agents in the week or two before admission, obtain two separate blood cultures on each of 3 successive days.
Blood Cultures, continued	

AHRO Laboratories/Catalog of Tests A to C

Additional Information,
continued

For suspected infective endocarditis the following is recommended:

- 1) Acute – Obtain 3 blood cultures with 3 separate
- 2) venipunctures during the first 1 to 2 hours of evaluation
- 3) and begin therapy.
- 4) Sub acute – Obtain 3 blood cultures on day 1 (ideally
- 5) 15 minutes or more apart); if all are negative, 24 hours
- 6) later, obtain three more. From undiagnosed patients
- 7) who have received antimicrobial agents in the week or
- 8) two before admission, obtain two separate blood
- 9) cultures on each of 3 successive days.

The major pitfall in interpretation of blood cultures is their contamination by microbial flora of the skin. The site of the venipuncture should be swabbed with 70% alcohol followed by 2% tincture of iodine, swabbed concentrically, starting at the center. The disinfectant should be allowed to dry before blood is aspirated. If further palpation of the vein is necessary during aspiration, the finger must be similarly disinfected. Draw patient specimens aseptically into a sterile syringe.

- For adult patients, prepare one aerobic Bactec Plus aerobic/F vial and one Bactec lytic/10 anaerobic/F vial by removing the plastic flip cap from each vial and cleaning the exposed rubber septum with 70% isopropyl alcohol.
- Inoculate the Bactec Plus aerobic/F vial with 8 – 10 ml of blood. Inoculate the Bactec lytic vial with 8 – 10 ml of blood. Always note the volume of blood inoculated into the vial.
- For pediatric patients use the Bactec Peds Plus/F vials. Inoculate with 1 – 3 ml of blood. Always note the volume of blood inoculated into the vial.
- Label all vials with the patient's name, ID number, date and time drawn. Transport to the laboratory immediately.
- Routine blood cultures are held for 5 days with preliminary reports going out after 1 day. All positive blood cultures are phoned to the physician.
- Bottles are held longer in some situations if the laboratory is notified, e.g.; brucellosis, *Mycobacterium avium-intracellulare* and systemic fungal infections. A second order must be placed when these organisms are to be cultured.

Bicarbonate (CO₂)

Page 18 of 39
Date Approved
Version

AHRO Laboratories/Catalog of Tests A to C

Alternate Test Name:	<u>CO2, Bicarb, HCO3</u>
LIS/HIS Code	CO2
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	several hours unopened at 2 – 8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	22-32 mmol/L
Methodology	Enzymatic
Additional Information	

BNP

Alternate Test Name:	B-type Natriuretic Peptide
----------------------	----------------------------

AHRO Laboratories/Catalog of Tests A to C

LIS/HIS Code	BNPEP
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	7 hours at Room Temp / 24 hours at 2 – 8 °C
Specimen Requirements	EDTA Plasma
Optimal Volume	3.0 mL
Minimal Volume	1.0 mL
Patient Preparation	None
Reference Ranges	<100 pg/mL
Methodology	Two-site Immunoenzymatic (sandwich) Assay
Additional Information	

BUN (Blood or Urine)

Alternate Test Name:	Blood Urea Nitrogen
LIS/HIS Code	Blood: BUN Urine, Random: UUNR

AHRO Laboratories/Catalog of Tests A to C

Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	Blood : 24 hrs at Room Temp / 3 days at 2 – 8°C Urine: 3 days at 2 – 8 °C
Specimen Requirements	Heparinized Plasma or Serum or Random Urine
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	Blood: 4 – 20 mg/dL Urine, Random: NA
Methodology	Urease with GLDH
Additional Information	

Calcium (Blood or Urine)	
Alternate Test Name:	Ca ⁺⁺
LIS/HIS Code	Blood: CA Urine, Random: UCAR
Lab Tested At	AHRO

AHRO Laboratories/Catalog of Tests A to C

Department	Chemistry
Storage and Transportation	Blood; 7 Days at Room Temp / 22 Days at 2 – 8°C Urine: 5 Days at Room Temp / 5 Weeks at 2 – 8 °C
Specimen Requirements	Heparinized Plasma or Serum or Random Urine
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	Blood: 8.3 – 10.3 mg/dL Urine, Random: NA
Methodology	Arsenazo Colorimetric Endpoint
Additional Information	

Carbamazepine

Alternate Test Name:	Tegretol
LIS/HIS Code	CARBAM
Lab Tested At	AHRO

AHRO Laboratories/Catalog of Tests A to C

Department	Chemistry
Storage and Transportation	30 days at 2 – 8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	Draw at the following times post dose: 3-12 hours for Ext Release 4-5 hours for Regular 1.5 hours for Suspension
Reference Ranges	4 - 12 µg/mL
Methodology	Homogeneous Enzyme Immunoassay (EMIT)
Additional Information	Note last dose time and date with requisition/order.

Carboxyhemoglobin

Alternate Test Name:	Carbon Monoxide, CO
LIS/HIS Code	CO/1249
Lab Tested At	AHRO
Department	Chemistry

AHRO Laboratories/Catalog of Tests A to C

Storage and Transportation	30 minutes at Room Temp >30 minutes ON ICE
Specimen Requirements	Whole blood in syringe or capillary tube containing balanced heparin or lithium heparin.
Optimal Volume	3.0 mL
Minimal Volume	1.0 ml
Post Testing Storage	Not Applicable
Patient Preparation	None
Reference Ranges	Carboxyhemoglobin 0.0-0.8 %
Methodology	Siemens RapidPoint 405
Additional Information	Immediately after sample collection: Remove any air Cap the device Mix the sample thoroughly before analyzing

Complete Blood Count

Alternate Test Name:	CBC
LIS/HIS Code	CBC/1048
Lab Tested At	AHRO
Department	Hematology

AHRO Laboratories/Catalog of Tests A to C

Storage and Transportation	Run immediately.
Specimen Requirements	EDTA whole blood (4.5 mL or 2 ml Tube or Lavender Top Microtainer acceptable). Heparinized blood not acceptable.
Optimal Volume	1.0 mL
Minimal Volume	0.25 ml
Post Testing Storage	24 hours at Ambient Temperature
Patient Preparation	None
Reference Ranges	WBC: 4.8 to 10.8 RBC: 4.7 - 6.1 (male) RBC: 4.2 - 5.4 (female) Hgb: 14 - 18 (male) Hgb: 12 - 16 (female) HCT: 42 - 52 (male) HCT: 37 - 47 (female) MCV: 80 - 94 (male) MCV: 81 - 99 (female) MCH: 27 - 31 MCHC: 33 - 37 RDW: 11.5-14.5 PLT: 130 - 400 MPV: 6.8 -10.0

Complete Blood Count (continued)

Reference Ranges	<u>Differential Parameters</u> Neutrophils 40 – 74% Lymphs 19 – 48% Monos 3.4 – 9.0% Eos 0 – 7.0% Basos 0 – 1.5% Bands 0 – 1.0% Meta 0 – 1%
------------------	--

AHRO Laboratories/Catalog of Tests A to C

Methodology	Automated Instrumentation
Additional Information	<p>If code "DECT" appears on the label, draw extra citrate tube". The patient has a history of platelet clumping in the EDTA, so the platelet count must be checked in the citrate (blue top) tube.</p> <p>If code "AGGL" appears on label it means the patient has a history of a strong cold agglutinin. Give the tube to the tech in Hematology as soon as it is drawn so that it can be put in a 37°C incubator.</p>

Cord Blood Evaluation

Alternate Test Name:	
LIS/HIS Code	Cord Blood Workup
Lab Tested At	AHRO
Department	Transfusion Services
Storage and Transportation	Run daily.
Specimen Requirements	Umbilical Cord Blood collected into purple EDTA Tube
Optimal Volume	4.0 mL
Minimal Volume	2.0 ml
Post Testing Storage	1 week at 2 – 8°C
Patient Preparation	None
Reference Ranges	ABO/Rh Type, direct coombs, and weak D testing (if necessary)
Methodology	Anti-Sera Agglutination

Additional Information

CEA

Alternate Test Name:	Carcinoembryonic Antigen
LIS/HIS Code	CEA
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	8 Hours at Room Temp / 48 hours at 2 – 8°C
Specimen Requirements	Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 ml
Patient Preparation	None
Reference Ranges	< 3.0 ng/mL
Methodology	Two-site Sandwich Immunoenzymatic Assay
Additional Information	

Chlamydia/GC Detection by PCR

Alternate Test Name:	GC and Chlamydia
----------------------	------------------

LIS/HIS Code	CHLAMTGC PCR
Lab Tested At	AHRO
Department	Microbiology
Storage and Transportation	<u>Run daily. Transport on ice to RMH.</u> Urine – transport at 18 to 25 °C. (stable 24 hrs.) Urine – transported at 2 to 8 °C. (stable 7 days) Swab – transport 2 to 8 °C. (stable 7 days)
Specimen Requirements	<u>Specimen Container:</u> (use first catch urine) <ul style="list-style-type: none"> • Xpert Vag/ Endocervical collection kit. • Xpert_Urine Specimen Collection Kit. • Unpreserved Urine. (Screw cap container for urine Specimens) <u>Preferred Specimen:</u> (use first catch urine) Urine is specimen of choice for both Female and Male (test not intended for throat, rectal, eyes) <p><u>Instructions:</u> <u>Urine</u> – Collect first stream urine (10ml to 50ml) into sterile container. (Must not have urinated for at least 2 hrs) <u>Swab</u> – (female only) Use Xpert CT/NG Vag./Endocervical Kit. Prior to specimen collection, remove mucous or exudate with sterile swab and discard. Follow instructions using only the swab provided in kit.</p>
Reference Ranges	Chlamydia DNA not detected or Neisseria gonorrhoeae not detected
Methodology	Polymerase Chain Reaction
Additional Information	See Policytech - Specimen Collection and Transportation of Microbiology Specimens for more detail.

Chloride (Blood or CSF or BF or Urine, Random)

Alternate Test Name:	Cl-
LIS/HIS Code	Blood: CL BF: BF CL Urine, Random: UCLR
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	5 days at 2 – 8°C
Specimen Requirements	Heparinized Plasma or Serum or BF or Random Urine
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	Blood: 101 – 111 mmol/L BF or Urine, Random: NA
Methodology	Ion Selective Electrode

Additional Information

Document Title

Cholesterol (Blood or BF)

Alternate Test Name:	
LIS/HIS Code	Blood: CHOL BF: BFCHOL
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	7 days at 2 – 8°C
Specimen Requirements	Heparinized Plasma or Serum or BF
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	Patient should be fasting for 10 to 12 hours (see fasting patient instruction sheet).
Reference Ranges	Blood: <200 mg/dL BF: NA
Methodology	Enzymatic Rate
Additional Information	

Document Title

Clostridium difficile Toxins A & B Detection by PCR

Alternate Test Name:	C. diff. toxin
LIS/HIS Code	CDIFFBPCR
Lab Tested At	AHRO
Department	Microbiology
Storage and Transportation	Refrigerate at 2 – 8°C & run daily at RMH Lab
Specimen Requirements	Fresh Stool in Sterile Screw Cap Container
Optimal Volume	2 grams
Minimal Volume	1 gram
Post Testing Storage	Refrigerated at 2 – 8 °C
Collection Instructions	Collect fresh stool in sterile, leak-proof container without media, preservative or metal ion. For patients requiring the use of diapers, first line the diaper with clean plastic to prevent absorption. Then transfer 2 g or 2 mL of the stool specimen from the plastic lined diaper to the sterile container. <u>Do not submit the diaper.</u> Cap securely. Do not use M4 transport media nor any preservative, media or additive.
Reference Ranges	Negative
Methodology	Polymerase Chain reaction
Additional Information	

Document Title

Cocaine (Urine Only)

Alternate Test Name:	
LIS/HIS Code	UCOC
Lab Tested At	RMH
Department	Chemistry
Storage and Transportation	7 Days at Room Temp
Specimen Requirements	Random Urine
Optimal Volume	15 mL to allow for confirmation testing if needed.
Minimal Volume	1.0 mL
Patient Preparation	None
Reference Ranges	Negative (cutoff at 300 ng/mL)
Methodology	Homogeneous Enzyme Immunoassay (EMIT)
Additional Information	If this test is found to be Indeterminate, it is sent to a reference lab for confirmation. LIS Code: UCOCQ

Document Title

Crossmatch

Alternate Test Name:	
LIS/HIS Code	Crossmatch AHG with Immediate Spin
Lab Tested At	AHRO
Department	Transfusion Services
Storage and Transportation	Run Immediately
Specimen Requirements	Whole Blood in Pink EDTA Tube with Typenex Banding
Optimal Volume	6.0 mL
Minimal Volume	2.0 ml
Post Testing Storage	1 week at 2 – 8°C
Patient Preparation	None
Reference Ranges	ABO/Rh Type and Antibody Identification with compatibility testing with donor blood units
Methodology	Anti-Sera Agglutination
Additional Information	See “Specimen Labeling Requirements for Transfusion Services’ for details on proper patient banding and specimen labeling.

Document Title

Cortisol

Alternate Test Name:	
LIS/HIS Code	CORTR
Lab Tested At	RMH
Department	Chemistry
Storage and Transportation	8 Hours at Room Temp / 48 hours at 2 – 8°C
Specimen Requirements	Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 ml
Patient Preparation	None
Reference Ranges	7am – 9am: 4.3 – 22.4 µg/dL 3pm – 5pm: 3.1 – 16.7 µg/dL
Methodology	Competitive Binding Immunoenzymatic Assay
Additional Information	Corticotropin Stimulation Test; LIS CODE: CORT0ACTH, COTR30ACTH, CORT60ACTH, CORT120ACTH

Document Title

CPK

Alternate Test Name:	CK, Creatine Kinase
LIS/HIS Code	CK
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	4 hours at Room Temp 8-12 hours at 2-8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	Male: 49 – 397 U/L Female: 30-234 U/L
Methodology	Enzymatic Rate
Additional Information	

Document Title

Creatinine (Blood or BF or Urine, Random or Timed)

Alternate Test Name:	Creat.
LIS/HIS Code	Blood: CREAT BF: BF CREAT Urine, Random: UCREATR Urine, Timed: UCREAT24
Lab Tested At	RMH
Department	Chemistry
Storage and Transportation	Serum: 7 Days at 2 – 8°C Urine: 2 Days at Room Temp / 6 Days at 2 – 8 °C
Specimen Requirements	Heparinized Plasma or Serum or BF or Random or Timed Urine
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	If timed urine, patient starts collecting urine the next day, discards the first AM void and then collects all following voids for 24 hours or time specified.
Reference Ranges	Blood: Male: 0.7 – 1.3 mg/dL Female: 0.4 – 1.1 mg/dL BF or Urine, Random: NA
Methodology	Kinetic Alkaline Picrate (Jaffe Reaction)
Additional Information	Each blood draw for creatinine will have a glomerular filtration rate (GFR) calculation that is an algorithm based on age, sex, race, and creatinine level.

Document Title

Creatinine Clearance

Alternate Test Name:	CRCL
LIS/HIS Code	CRCLBSA
Lab Tested At	RMH
Department	Chemistry
Storage and Transportation	5 days at 2 – 8°C
Specimen Requirements	Heparinized Plasma or Serum or OBF and 24-hour urine without preservatives and refrigerated during collection.
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	Patient starts collecting urine the next day, discards the first AM void and then collects all following voids for 24 hours or time specified.
Reference Ranges	80 – 139 mL/min
Methodology	Kinetic Alkaline Picrate (Jaffe Reaction)
Additional Information	<u>The patient's weight and height are required.</u> A blood draw for creatinine must be collected within the period of the urine collection or within 24 hours before or after the urine collection. Total urine volume is required for this test's calculations.

Document Title

CRP

Alternate Test Name:	C-Reactive Protein
LIS/HIS Code	CRP
Lab Tested At	AHRO
Department	Chemistry
Storage and Transportation	11 Days at Room Temp / 60 days at 2 – 8°C
Specimen Requirements	Heparinized Plasma or Serum
Optimal Volume	1.0 mL
Minimal Volume	0.25 mL
Patient Preparation	None
Reference Ranges	< 0.748 mg/dL
Methodology	Latex Particle Immunoturbidmetric
Additional Information	