

D.24 LABORATORY SERVICES MANUAL

Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
17-Hydroxyprogesterone	See report	REF	Red top NO GEL	Spin and aliquot serum	Refrigerated	Referral
5-HIAA, Urine	See report	REF	Random Urine	10mL urine	Refrigerated	Referral
5'-Nucleotidase	See report	REF	Gold top SST	Centrifuge and aliquot.	Frozen	
A1C Hemoglobin	4.4 - 6.6%	CHEM	Lavender top	Refrigerate. Do not centrifuge.	Refrigerated	Mon - Fri
Acetaminophen	10 - 30 ug/mL Toxic: Greater than 150 ug/mL at 4 hours after ingestion.	CHEM	Gold top SST or Red top NO GEL	Allow to clot. Centrifuge, remove serum and refrigerate.	Refrigerated	Daily
Acetylcholine Receptor Antibody	See report	REF	Gold top SST	Allow to clot, centrifuge and refrigerate	Refrigerated	Referral
ACTH, Adrenocorticotrophic Hormone	See report	REF	Pre-chilled LAV top tube Collect and immediately place on ice.	Centrifuge in a refrigerated centrifuge, remove plasma and freeze immediately in a plastic tube.	Frozen	Referral
Activated Protein C Resistance Assay	2.0 - 4.0 ratio	HEM (REF)	Blue top tube ON ICE Deliver to lab immediately!	Transport to lab immediately or centrifuge (refrigerated centrifuge if available) at 3000 rpm for 10 minutes. Using a plastic pipette, transfer plasma to a plastic tube and freeze.	Frozen	Referral
Adenovirus Group Ab	See report	REF	Gold top SST	Allow to clot. Centrifuge, and refrigerate.	Refrigerated	Referral
Adenovirus Culture	See Viral Encephalitis Panel	MI				
AFB Culture & Smear	Negative Smears for acid fast bacilli are routinely prepared and read on all specimens except urine. 6 weeks required for negative test. Also see BLOOD CULTURE, AFB.	MI (REF)	Collect at least 5.0 mL of sputum, respiratory aspirates, body fluids, gastric washing stool or urine in sterile container with secure lid. Collect tissue samples in a sterile, leak-proof container without preservatives.	Refrigerate Transport specimens to lab within 24 hours of collection.	Refrigerated	Referral

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AFB Direct Smear	Negative	MI (REF)	Collect at least 5.0 mL of sputum or respiratory aspirate in sterile, leak-proof container with secure lid.	Refrigerate	Refrigerated	Referral
(ALT) Alanine Aminotransferase	10 - 55 units/L	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Albumin, Serum	3.4 - 4.5 g/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Albumin, CSF	11 - 32 mg/dL	CHEM (REF)	1 mL spinal fluid	Refrigerate	Refrigerated	Referral
Albumin, Serous Fluid/ Synovial Fluid	See report Order concurrent serum albumin	CHEM/ REF	2 mL fluid	Refrigerate	Refrigerated	Daily/Referral
Alcohol Metabolite & Confirmation (ETG)	See report	REF	Random Urine	Aliquot 1mL urine and store at room temperature	Room Temp	Referral
Aldolase	See report	REF	Gold top SST	Centrifuge, aliquot and freeze.	Frozen	Referral
Aldosterone, Serum	See report	REF	Red top NO GEL	State site of collection and if patient was upright or supine. Allow blood to clot, centrifuge and refrigerate.	Refrigerated	Referral
Aldosterone, Urine	See report	REF	24 hour urine collection on boric acid. Refrigerate during collection.	Acid can be added after collection. Refrigerate. Send 5 mL urine aliquot. Record total volume.	Refrigerated	Referral
(ALP) Alkaline Phosphatase	50 - 136 units/L	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Alpha 1 Antitrypsin	83 - 199 mg/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Alpha Fetoprotein	0 - 8.7 ng/mL	CHEM	Gold top SST	Allow to clot, centrifuge, and freeze. OK refrigerated for 48 hours.	Frozen	Referral
Aluminum	See report	REF	1 full dark blue top tube Draw 1 tube and discard, submit 2 nd tube.	Centrifuge, transfer to a metal free tube and refrigerate.	Refrigerated	Referral

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Amikacin	Therapeutic peak: 20 - 30 MCG/mL Therapeutic trough: 1 - 8 MCG/mL	REF	Red top NO GEL	Allow to clot. Centrifuge, remove serum, and refrigerate.	Refrigerated	Referral
Aminolevulinic Acid, Delta, 24H urine	See report	REF	24 hour urine collected in 33% acetic acid. Refrigerate during collection.	Freeze. Send 25 mL minimum of the 24 hour collection. Record total volume and collection period (hours) on requisition. Protect from light.	Frozen	Referral
Amitriptyline Panel	See report	REF	Red top NO GEL	Allow to clot. Centrifuge, remove serum, and refrigerate.	Refrigerated	Referral
Ammonia	11 - 32 UMOL/L	CHEM	Green Top, Lithium Heparin. Collect and place on ice. Deliver IMMEDIATELY	Must be spun and run within 20 minutes of collection.	N/A	Daily
Amphetamines Screen, Urine Qualitative	Qualitative Negative/Presumptive Positive results reported. Does not include confirmatory testing on presumptive positives.	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate up to 24 hours or freeze.	Refrigerated or frozen	Daily
Amylase, Serum	27 -117 IU/L	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily
Amylase, Urine		CHEM	24 hour urine. No preservative.	Refrigerate	Refrigerated	Daily
Anaerobe Culture	Specimens acceptable for anaerobic culture include normally sterile sites such as body cavity fluids, abscesses, surgical specimens, cervical or uterine specimens obtained by direct visual examination of a lesion, transtracheal aspirates, and urine obtained by suprapubic puncture. Unacceptable specimens are those from or collected via sites with normal anaerobic flora: throat, mouth, cervix, lower gastrointestinal tract, skin, superficial wound etc.	MI	Sterile fluids and aspirates: Collect 1.0 mL in syringe. Inject fluid into anaerobic transport tube. Swabs: collect specimen using a sterile swab and send swab in anaerobic transport medium. Tissue: Place sample in sterile container without preservatives.	Transport to the laboratory within 24 hours of collection.	Room temp. for anaerobic transport tube. Refrigerated for tissue.	Daily

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Anaplasma Ab Ordered with Ehrlichia Ab	Negative/Nonreactive	NYS	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Referral
Anaplasma DNA Ordered with Ehrlichia DNA	Not Detected	NYS	2 full Lav top (EDTA) tubes	Room temperature	Room temp	Referral
Androstenedione	See report	REF	Red top NO GEL	Allow to clot, centrifuge and separate.	Room Temp	Referral
Angiotensin Converting Enzyme (ACE)	See report	REF	Gold top SST Deliver IMMEDIATELY	Must be spun and aliquoted within 1 hour. Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Anticardiolipin Antibodies	<10 u/mL	HEM (REF)	Light blue top tube	Spin & remove plasma	Refrigerated	Referral
Anticardiolipin Ab IgA	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	
Anti-CCP IgG	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Anti-DS-DNA	See report	REF	Gold top SST	Allow to clot. Centrifuge, aliquot 1 mL serum and refrigerate.	Room Temp	Referral
Antidiuretic Hormone (Vasopressin)	See report	REF	2 PRE-CHILLED LAV top tubes Collect and immediately place on ice.	Centrifuge, remove plasma and serum, and freeze immediately.	Frozen	Referral
Anti-Mitochondrial Antibody (M2)	Negative	REF	Gold Top SST Deliver Immediately	Allow to clot, centrifuge, aliquot 1 mL serum and refrigerate. Within 1 hour!	Room temp.	Referral
Antinuclear Antibody	Negative: $\leq 1:40$ Positive samples are referred for titer and pattern confirmation	MI	Gold top SST	Allow clotting, centrifuge, and refrigerate.	Refrigerated	1 time/week
ANCA (Antineutrophil Cyto Ab)	See report	REF	Gold top SST	Allow to clot, centrifuge and store at room temperature.	Room temp	Referral
Anti-Parietal Cell Antibody	Negative	REF	Gold Top SST	Allow to clot, centrifuge, aliquot serum and Refrigerate.	Refrigerated	Referral
Anti-Streptolysin O	Negative: < 200 IU	REF	Gold Top SST	Allow to clot, centrifuge, and freeze.	Frozen	Referral
Anti-TPO Antibodies	Negative	REF	Gold Top SST	Allow to clot, centrifuge and refrigerate.	Refrigerated	Referral
Arsenic, Urine	See Heavy Metals, Urine	REF				

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Arthropod Identification	Microscopic, genus level identification of arthropods including ticks, lice and mites.	MI	Submit arthropod or skin scrapings in a clean, dry specimen container.	Store at room temperature.	Room temp.	As requested
(AST) Aspartate Aminotransferase	12 - 34 IU/L	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Babesia Ab	Negative/Nonreactive	NYS (REF)	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Babesia DNA	Not detected	NYS (REF)	1 full LAV top EDTA tube	Store at room temperature	Room Temp	Referral
Barbiturates Screen, Urine, Qualitative	Qualitative Negative/Presumptive Positive results reported. Does not include confirmatory testing on presumptive positives.	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate up to 24 hours or freeze.	Refrigerated or frozen	Daily
Benzodiazepines Screen, Urine, Qualitative	Qualitative Negative/Presumptive Positive results reported. Does not include confirmatory testing on presumptive positives.	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate up to 24 hours or freeze.	Refrigerated or frozen	Daily
Beta 2 Glycoprotein 1 Abs	See report	REF	Gold top SST	Allow to clot, centrifuge and refrigerate.	Refrigerated	Referral
Beta 2 Microglobulin	1.4 - 2.7 mg/L	CHEM	Gold top SST	Allow to clot, centrifuge, aliquot serum and refrigerate.	Refrigerated	Referral
Beta-Hydroxybutyrate	See report	REF	Gold top SST	Allow to clot, centrifuge, aliquot serum and refrigerate.	Refrigerated	Referral
Beta Strep Screen Throat	See Rapid Strep A Antigen test	MI			.	Daily
Bilirubin, Direct	0.0 - 0.5 mg/dL	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily
Bilirubin, Total	0.1 - 1.0 mg/dL	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily

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Blood Culture		MI	Draw blood using aseptic technique by disinfecting the venipuncture site with ChloroPrep. DO NOT touch site after cleansing. Wipe tops of bottles with alcohol.	Must be received by Lab within 4 hours of collection		
Blood culture Acid Fast Bacilli	Any organism isolated may be considered a pathogen.	MI (REF)	5 mL of blood in MYCO/F LYTIC bottle. Call 626-5716 for details.	Must be received by Lab within 4 hours of collection.	Refrigerated	Referral
Blood Culture Fungus	Any organism isolated may be considered a pathogen.		5 mL of blood in MYCO/F LYTIC bottle. Call lab at 626-5716 for details.	Must be received by Lab within 4 hours of collection	Room temp.	Daily
Blood culture Routine	Any organism isolated may be considered a pathogen.		8-10 mL of blood in aerobic blood culture bottle. (Blue top bottle) 5-7 mL of blood in anaerobic bottle. (yellow top)	Must be received by Lab within 4 hours of collection	Room temp.	Daily
Blood Grouping ABO/RH	Not applicable	BB	7 mL blood (pink top tube) Hand labeled	Store at room temp. Refrigerate if held overnight.	Refrigerate	Daily
Blood Parasite Smear	Normal: No parasites.	HEM	5 mL blood (lavender top EDTA tube). Draw at time of temperature spike.	Room temperature	Room temp.	Mon - Fri
Bone Marrow Aspiration	Report and interpretation provided.	HEM	Samples should only be collected at the VA Medical Center in Albany with a Hematology consult.			
Bordetella Pertussis, PCR	Negative	MICRO (REF)	Collect nasopharyngeal swab specimens with Quest collection kit.	Store at room temperature	Room temp	Referral
Bronchial Aspirate Culture	See Lower Respiratory Culture	MI				

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Buprenorphine	Qualitative Negative/Presumptive Positive results reported. Does not include confirmatory testing on presumptive positives.	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate up to 24 hours or freeze.	Refrigerated or frozen	Daily
C-Peptide	See report	REF	Gold top SST	Allow to clot. Centrifuge, aliquot serum and refrigerate.	Refrigerated	Referral
C-Reactive Protein	0 - 0.8 mg/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerate	Daily
C-Telopeptide	See report	REF	Collect between 8-10am Gold top SST Delivered to lab immediately	Allow to clot, centrifuge and aliquot	Frozen	Referral
C1-Esterase Inhibitor	See report	REF	Gold top SST	Allow to clot, centrifuge, and aliquot serum.	Room Temp.	Referral

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C3 Complement	88 - 201 mg/dL	CHEM	Gold top SST	Allow to clot, centrifuge, aliquot 0.5 mL serum and freeze.	Frozen	Mon - Fri
C4 Complement	16 - 47 mg/dL	CHEM	Gold top SST	Allow to clot, centrifuge, aliquot 0.5 mL serum and freeze.	Frozen	Mon - Fri
CA125	See report	REF	Gold top SST	Allow to clot. Centrifuge, and store at room temperature.	Room Temp	Referral
CA 19-9	See report	REF	Gold top SST	Allow to clot. Centrifuge, and store at room temperature.	Room Temp	Referral
Calcitonin (Thyrocalcitonin)	See report	REF	Gold top SST	Allow to clot. Centrifuge, aliquot serum and freeze.	Frozen	Referral
Calcium Ionized, Serum	1.18 - 1.32 mmol/L	CHEM	Gold top SST	Centrifuge. Do not remove stopper. Refrigerate	Refrigerated	Daily
Calcium, Serum	8.5 - 10.2	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily
Calcium, 24 Hour Urine	30 - 400 mg/24 Hr	CHEM	24 hour urine collection in plain or HCL bottle. Refrigerate during collection.	Record total volume and collection period (hours) on requisition. Send 10 mL aliquot. Refrigerate.	Refrigerated	Daily
Calcium, Random Urine	Not applicable	CHEM	10 mL fresh random urine.	Refrigerate	Refrigerated	Daily
Calculus	See Stone	REF				
Cannabinoids Screen, Urine, Qualitative	Qualitative Negative/Presumptive Positive results reported. Does not include confirmatory testing on presumptive positives.	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate up to 24 hours or freeze.	Refrigerated or frozen	Daily
Carbamazepine	Therapeutic: 4 - 12 ug/mL	CHEM	Gold top SST	Centrifuge, remove serum, and refrigerate.	Refrigerated	Referral
Carbon Dioxide	23 - 32 mEq/L	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Carboxyhemoglobin	Non-smoker \leq 1.5% Smoker 1.5 - 5.0 %	CHEM	2 mL blood (ABG or GREEN TOP TUBE). Collect and immediately place on ice	Refrigerate	Refrigerated	Daily

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Carcinoembryonic Antigen (CEA)	0 - 5 ng/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate up to 48 hours or freeze.	Refrigerated or frozen	Daily
Carotene	See report	REF	Gold top SST Protect from light.	Allow to clot, centrifuge, remove serum and freeze. Protect from light.	Frozen	Referral
Catecholamines, Urine	See report	REF	24 hour urine collected in 6N HCL bottle. Refrigerate during collection.	Refrigerate. Send 10 mL minimum of the 24 hour collection. Record total volume and collection period (hours) on requisition.	Refrigerated	Referral
Catheter Tip Culture	Any organism in quantities of > 15 colonies considered a potential pathogen.	MI	Place tip in sterile, capped container.	Refrigerate	Refrigerated	Daily
CBC, Complete Blood Count	See report	HEM	LAV top EDTA tube Draw to fill line	Make slide and refrigerate tube; avoid temperature extremes. Transport within 24 hours.	Refrigerated	Daily
Ceruloplasmin	See report	CHEM	Gold top SST	Allow to clot, centrifuge and refrigerate.	Refrigerated	Referral
Cervical Culture	See Genital Tract Culture	MI				
Chemistry Basic Metabolic Panel	Includes: Calcium Carbon Dioxide Chloride Creatinine Glucose Potassium Sodium Urea Nitrogen See individual test for interpretation.	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily

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Chemistry Comprehensive Metabolic Panel	Includes: Albumin Alanine aminotransferase Alkaline phosphatase Aspartate aminotransferase Bilirubin, total Calcium Carbon dioxide Chloride Creatinine Glucose Potassium Protein, total Sodium Urea nitrogen See individual test for interpretation	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Chlamydia Trachomatis Amplified Nucleic Acid	See Chlamydia/ GC Amplified Nucleic Acid	MI				
Chlamydia/ GC Amplified Nucleic Acid	Negative	MI	Use Cepheid CT/NG Specimen collection kit to obtain samples 1. Pink shaft swab for female endocervical or vaginal samples collected in the transport tube . For urine specimens –male and female- the liquid level in the transport tube must be at the fill line on the tube label.	Specimens (urines or swabs) in transport tube may be stored at refrigerator or room temperature for up to 45 days.	Swabs: Room temp. or refrigerated Urine: Room temp or refrigerated	Mon-Sat Day shift
Chloride, Serum	97 - 109 mEq/L	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily

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Chloride, 24 Hour Urine	77 - 266 mEq/24 Hr	CHEM	24 hour urine in plain bottle. Refrigerate during collection.	Record total volume and collection period (hours) on requisition. Send 10 mL aliquot. Refrigerate.	Refrigerated	Daily
Chloride, Random Urine	Not applicable	CHEM	10 mL fresh random urine.	Refrigerate	Refrigerated	Daily
Cholesterol	Low risk: <200 mg/dL Borderline: 200 - 239 mg/dL High Risk: \geq 240 mg/dL	CHEM	Gold top SST	Allow to clot, centrifuge and refrigerate.	Refrigerated	Daily
Cholesterol, HDL	See Lipid Profile	CHEM				
Chromogranin A	See report	REF	Gold top SST	Allow to clot, centrifuge & freeze	Frozen	Referral
Chronic Ambulatory Peritoneal Dialysis (CAPD) Fluid Culture	Any organism may be considered a pathogen.	MI	50 mL aliquot in sterile, leak-proof container or entire dialysis fluid bag.	Refrigerate	Refrigerated	Daily
Citrate, Urine	See report	REF	24 hour urine collection in plain or HCL bottle. Refrigerate during collection.	Refrigerate. Send at least a 25 mL aliquot. Record total volume and collection period (hours) on requisition.	Refrigerated	Referral
Clostridium Difficile Toxin	Toxigenic C diff and 027 NAP1-B1 Negative	MI	Collect at least 5.0 mL of LIQUID stool in a sterile container. Rectal swabs are not acceptable.	Store refrigerated.	Refrigerated	Mon- Sat Day shift
Clozapine	See report	REF	Red top NO GEL	Allow to clot, centrifuge and aliquot serum.	Frozen	Referral
Cocaine Screen, Urine, Qualitative	Qualitative Negative/Presumptive Positive results reported. Does not include confirmatory testing.	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate up to 24 hours or freeze.	Refrigerated or frozen	Daily
Cold Agglutinins	Negative	HEM (REF)	(2) Red top tubes NO GEL Collect in pre-warmed tube. Deliver to lab immediately	Allow to clot in 37°C water bath. Spin and separate immediately. Store at room temperature.	Room temp.	Referral
Complement, Total (CH50)	See report	REF	Gold top SST Delivered to lab immediately	Allow to clot, centrifuge and aliquot within 1 hour.	Frozen	Referral
Copper, plasma	See report	REF	Full Dk Blue top EDTA tube	Allow to clot. Centrifuge within 45 minutes of collection, transfer to metal free tube and store at room temperature.	Room temp.	Referral

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Copper, Urine	See report	REF	24 hour urine collection in special acid washed container.	Send minimum 7 mL aliquot. Record total volume and collection period (hours) on requisition. Refrigerate	Refrigerated	Referral
Cortisol, Serum	2.4 - 18.6 ug/dL	CHEM	Gold top SST	Allow to clot. Centrifuge, transfer 2 mL serum and refrigerate.	Refrigerated	Daily
Cortisol, Urine (24Hr)	See report	REF	24 hour urine collection in bottle unpreserved or containing 30 mL of 6 N HCL. Refrigerate during collection.	Refrigerate. Send minimum 2 mL aliquot. Record total volume and collection period (hours) on requisition.	Refrigerated	Referral
Creatine Kinase Mb	Normal: 0 - 5 ng/mL Suggestive of myocardial infarction: \geq 5 ng/mL and >4% of Total CK	CHEM	Gold top SST	Allow to clot. Centrifuge, aliquot serum and refrigerate.	Refrigerated	Daily
Creatine Kinase, Total	21 - 232 IU/L	CHEM	Gold top SST	Allow to clot. Centrifuge, aliquot serum and refrigerate.	Refrigerated	Daily
Creatinine, Serum	0.7 - 1.4 mg/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Creatinine, 24 Hour Urine	600 -2500 mg/dL	CHEM	24 hour urine in plain bottle. Refrigerate during collection.	Refrigerate. Record total volume and collection period (hours) on requisition. Send 10 mL aliquot.	Refrigerated	Daily
Creatinine, Random Urine	Not applicable	CHEM	10 mL fresh random urine.	Refrigerate	Refrigerated	Daily
Cryptococcus Neoformans Antigen Detection	Negative Positive antigen samples are titered.	MI	CSF: 1 mL in a sterile container. Blood: Gold top SST	CSF: Refrigerate Blood: Centrifuge, remove serum and refrigerate.	Refrigerated	As requested
Cryptosporidium Antigen	See Ova And Parasite Exam	MI				
CSF Culture	See Sterile Fluid Culture	MI				
Cyclospora	See Ova And Parasite Exam Comprehensive	MI				
Cyclosporine, Whole Blood	Therapeutic range: Dependent upon transplant indication.	REF	LAV top EDTA	Room Temp	Room Temp	Referral

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Cystine, Urine	See report	REF	24 hour urine collected without preservative. Refrigerate during collection.	Send 2 mL aliquot. Record total volume and collection period (hours) on requisition. Freeze	Frozen	Referral
Cytology, Genital	See report	PATH	Use appropriate collection supplies to obtain sample. Contact the cytology laboratory 626-5712 for additional information.	Transfer sample to slide labeled with patient name. Store at Room temperature.	Room temp	Mon - Fri
Cytology, Sputum	See report	PATH	Collect in sterile specimen container, no preservative.	Refrigerate	Refrigerated	Mon - Fri
Cytology, Urine	See report	PATH	Collect in sterile specimen container, no preservative.	Refrigerate	Refrigerated	Mon - Fri
Cytomegalovirus DNA By PCR, Plasma, Fluid, Or Tissue	See report	REF	LAV top EDTA tube or 0.5 mL fluid CSF	Plasma: Separate and freeze within 5 hours of collection. Fluid: Refrigerate. Ship within 48 hrs of collection	Plasma: Frozen Fluid: Refrigerated	Referral
Cytomegalovirus Titer IgG IgM	See report	REF	Gold top SST	Allow to clot, centrifuge, aliquot serum and refrigerate.	Refrigerated	Referral
D-Dimer	<0.5 ug/mL expressed in fibrinogen equivalent units (FEU)	HEM	5 mL blood (light blue top tube)	Transport to laboratory within 4 hours of draw time or centrifuge at 3000 rpm for 10 minutes. Transfer plasma to plastic tube and freeze.	Refrigerate if uncentrifuged. Frozen if separated.	Daily
Dehydroepiandrosterone (DHEA)Sulfate	See report	REF	Gold top SST	Allow to clot. Centrifuge and store at room temp.	Room Temp	Referral
Deoxycorticosterone	See report	REF	Gold top SST Deliver to lab Immediately	Allow to clot. Centrifuge, and freeze within 1 hour.	Frozen	Referral
Desipramine	See report	REF	Red top NO GEL	Allow to clot. Centrifuge, remove serum and store at room temp.	Room Temp	Referral
Digoxin	Therapeutic: 0.8 - 2.0 ng/mL	CHEM	Gold top SST	Centrifuge and refrigerate.	Refrigerated	Daily
Dopamine, Urine	See Catecholamines, Urine	REF				

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Drug Confirmation, Urine	See report	REF	30 mL fresh random urine. No preservative	Refrigerate	Refrigerated	Referral
Drug Screen, Urine Qualitative	Drug classes available include: Opiates, Benzodiazepines, Cannabinoids, and Cocaine Does not include confirmatory testing on presumptive positives.	CHEM	20 mL fresh random urine. No preservative	Refrigerate up to 24 hours or freeze.	Refrigerated or frozen	Daily
Ear Culture	No growth or normal skin flora	MI	Use Culturette system to collect swab of drainage or fluid obtained during tympanocentesis. After collection insert swab into Culturette tube.	Store at room temp. Must be received by lab within 24 hours of collection.	Room temp.	Daily
E. Coli Shiga Toxin	Included in Stool Culture	MI	Stool in clean container or Cary Blair C/S medium (yellow top transport vial)	Store at room temperature. Must be received within 2 hours or store in Cary Blair C/S medium	Room temperature	Mon-Sat Day shift
Ehrlichia Ab Ordered with Anaplasma Ab	Negative	NYS	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Referral
Anaplasma DNA Ordered with Ehrlichia DNA	Not detected	NYS	(2) LAV top EDTA tubes	Room temperature	Room Temp	Referral
Electrolytes	Includes: Carbon Dioxide, Potassium, Chloride, Sodium	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily
Epstein Barr Virus	In order to provide a complete interpretation, the following individual components should be ordered: Early Antigen IgM Ab to Viral Capsid Ag IgG Ab to Viral Capsid Ag Nuclear Antigen. (See individual tests.)	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Epstein Barr Virus, Early Antigen	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral

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Factor V Leiden Assay		HEM (REF)	(2) LAV top EDTA tubes	Refrigerate	Room temp	Referral
VonWillebrand Antigen	50 - 217%	HEM (REF)	(3) 5 mL tubes of blood (light blue top tube). Collect on ICE and deliver immediately	Centrifuge and Freeze. Transport to lab frozen.	Frozen	Referral
Fat, Fecal, Qualitative (Sudan Stain)	Negative	REF	Send a small portion stool specimen in clean container.	Freeze 5g of stool	Frozen	Referral
Fat, Fecal, Quantitative	See report	REF	72 hour specimen. Send in 72hr collection container	Freeze	Frozen	Referral
Fecal Lactoferrin	Negative	MI	Collect at least 1.0 mL of stool in a clean container with secure lid. Rectal swabs are not acceptable.	Store refrigerated.	Refrigerated	Mon - Sat-day shift
Fentanyl/Norfentanyl serum	See report	REF	Red top NO GEL	Allow to clot. Centrifuge and aliquot serum.	Room Temp	Referral
Ferritin	35 - 435 ng/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Fibrinogen Level	200 - 400 mg/dL	HEM	5 mL blood (light blue top tube)	Freeze if testing is delayed more than 5 hours.	Refrigerated	Daily
Flecainide	See report	REF	Red top NO GEL	Centrifuge, remove plasma and refrigerate.	Refrigerated	Referral
Flow Cytometry	See individual test requests: T-cell panel Lymphoma/Leukemia markers	HEM (REF)				
Fluorescent Treponemal Antibody (TP-PA)	Non-reactive. Test used to confirm positive RPR tests.	REF	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Referral

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Folate, Serum	Normal: >5.3 ng/mL Borderline: 3.1 - 5.3	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Frozen	Daily
Folate, RBC	257 - 800 ng/mL	REF	LAV top EDTA tube	Protect from light (>72hr) Store at Room Temp	Room Temp	Referral
Follicle Stimulating Hormone (FSH)	See report	CHEM	Gold top SST	Allow to clot. Centrifuge and freeze.	Refrigerated	M, W, F
Free Light Chains Serum/Urine	See report	CHEM	Gold top SST/Random Urine	Refrigerate	Refrigerated	Weekly
Fructosamine	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Fungus Culture	See Mycology Culture	MI				
Gamma Glutamyl Transferase (GGT)	15 - 82 IU/L	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily
Gastric Analysis	See report Includes volume, pH, and total acid	REF	10 mL specimen in sterile container. 12 hour fast required.	Refrigerate	Refrigerated	Referral
Gastric Occult Blood	Negative	MI	1 mL specimen in sterile container.	Refrigerate	Refrigerated	As requested
Gastrin	See report	REF	Gold top SST Collect and place immediately on ice. Patient must be fasting 12 hrs	Allow to clot, centrifuge, remove serum and freeze immediately.	Frozen	Referral
GC Amplified Nucleic Acid	See Chlamydia/ GC Amplified	MI				
GC Culture	See Neisseria Gonorrhoeae Culture	MI				
Genital Tract Culture Male/Female	Potential pathogens: <i>Neisseria gonorrhoeae</i> , beta hemolytic streptococci, <i>Gardnerella vaginalis</i> , <i>Staphylococcus aureus</i> , and Yeast.	MI	Use Culturette system to collect swab specimens. After collection, insert swab into Culturette tube.	Store swab at room temp.	Room temp.	Daily
Gentamicin	Therapeutic Peak: 4 - 8 MCG/mL Therapeutic Trough: <2 MCG/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Giardia Antigen	See Ova And Parasite Exam	MI				

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Glucagon, Plasma	See report	REF	LAV top EDTA tube	Centrifuge, remove plasma, and freeze.	Frozen	Referral
Glucose, CSF	45 - 80 mg/dL	CHEM	0.5 mL spinal fluid	Refrigerate	Refrigerated	Daily
Glucose, Serum	70 - 115 mg/dL	CHEM	Gold top SST	Allow to clot, centrifuge and refrigerate	Refrigerated	Daily
Glucose-6-Phosphate Dehydrogenase Quantitative	See report	REF (HEM)	LAV top EDTA tube	Refrigerate Do not centrifuge. Do not freeze	Refrigerated	Referral
Gram Stain	Specimen dependent. Test must be specifically requested for all specimens other than tissue and sterile fluid.	MI	Refer to specific specimen source for collection instructions.	Refer to specific specimen source for handling instructions.	Refer to CULTURE for transport conditions.	Daily
Growth Hormone	See report	REF	Gold top SST	Allow to clot, centrifuge, and store at room temperature	Room Temp	Referral
Haptoglobin	See report	CHEM	Gold top SST	Allow to clot, centrifuge and refrigerate.	Refrigerated	Referral
Heavy Metals, Blood	Includes Arsenic, Lead , and Mercury. See report.	REF	Dk Blue top tube	Do not open. Store refrigerated.	Refrigerated	Referral
Helicobacter Pylori Antigen, Stool	Negative	MI	5mL of stool in a sterile container	Store refrigerated	Refrigerated	1 time/week
Hemochromatosis DNA Analysis	See Report	REF	(2) LAV top EDTA tubes	Whole blood stored at room temperature.	Room Temp	Referral
Hematocrit	Male: 38.9 - 52.4 Female: 35.0 - 44.0	HEM	LAV top EDTA tube	Store refrigerated. Transport within 24 hours.	Refrigerated	Daily
Hemoglobin	Male: 13.5 - 17.1 Female: 11.7 - 14.8	HEM	LAV top EDTA tube	Store refrigerated. Transport within 24 hours.	Refrigerated	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Hemoglobin Electrophoresis (Hemoglobinopathy Evaluation)	Hemoglobin A: 94 - 98% Hemoglobin A2: 1.5 - 3.0% Hemoglobin F: 0 - 2% Hemoglobin S: 0% Hemoglobin C: 0%	HEM (REF)	LAV top EDTA tube	Refrigerate. Attach CBC if available	Refrigerated	Referral
Hepatic Function Panel	Includes: Alanine Aminotransferase Albumin Alkaline Phosphatase Aspartate Aminotransferase Bilirubin, Direct Bilirubin, Total Protein, Total See individual tests for reference values.	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily
Hepatitis A Antibody IgG & IgM	See report	REF	Gold top SST	Allow to clot, centrifuge and freeze.	Frozen	Referral
Hepatitis A Antibody IgM		REF	Gold top SST	Allow to clot, centrifuge, and freeze.	Frozen	Referral
Hepatitis B						
TOTAL CORE ANTIBODY (HBcAb)	Negative. Included in Hepatitis B Profile. Will reflex to HBsAb if HBcAb is positive.	CHEM	Gold top SST	Allow to clot, centrifuge and refrigerate.	Refrigerated	T/TH
SURFACE ANTIGEN (HBsAg)	Negative. Included in Hepatitis B Profile. Will reflex for confirmation if positive.	CHEM	Gold top SST	Allow to clot, centrifuge and refrigerate.	Refrigerated	T/TH
SURFACE ANTIBODY (HBsAb)	Positive if patient is immune because of past infection or vaccination	CHEM	Gold top SST	Allow to clot, centrifuge and refrigerate.	Refrigerated	T/TH
Hepatitis C Antibody	Negative Positive samples will be referred for confirmatory testing.	CHEM	Gold top SST AND White top SST	Centrifuge within 2 hours of collection. Refrigerate.	Refrigerated	T/TH

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Hepatitis C Virus RNA (HCV RNA Quantitation)	Reportable range: 12 - 100,000,000 IU/mL	MI	White top SST	Centrifuge within 2 hours of collection. Do not open. Store frozen.	Frozen	1-2 times/week
Hepatitis C Virus Genotyping	Classifies Hepatitis C virus as genotype 1-6 and their most common subtypes.	MI	White top SST	Centrifuge within 2 hours of collection. Do not open. Store frozen.	Frozen	Every other week
Hepatitis Delta Antibody	See report	REF	Gold top SST	Allow to clot, centrifuge, and store at room temperature	Room Temp	Referral
Herpes Simplex (HSV-I) Antibody IGG or IGM	See report	REF	Gold top SST	Allow to clot, centrifuge, and store at room temperature.	Room Temp	Referral
Herpes Simplex Virus, Type 1 & 2 DNA Amplification	Negative Performed on dermal, oral and genital tract samples.	MI (REF)	Collect specimens using culturette swab or virus collection kit.	Place swab in culturette tube or transport medium and store refrigerated.	Refrigerated	Referral
Hiv-1 RNA Quantitation (HIV Viral Load)	Reportable range: 40 - 10,000,000 copies/mL	MI	White top SST	Centrifuge within 4 hours of collection. Do not open. Store frozen.	Frozen	1 time/week
HIV Antibody	Negative An HIV antigen and antibody combination test is used. Samples positive by initial testing are referred for Western Blot and/or HIV RNA testing	MI	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	1 time/week
HIV-1 Western Blot	Used as a confirmation test by lab only	MI	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Room temp	referral
HLA Antibody Screen	See report	REF	Red top NO GEL	Do not centrifuge. Store at room temperature.	Room temp.	Referral
HLA-B27 Antigen	See report	REF	1 Full Green top Sodium Heparin tube. Draw only Mon. – Fri before noon	Store at room temperature.	Room temp.	Referral
HLA-Dr Typing	See report	REF	LAV top EDTA tube. Draw only Mon. – Fri before noon	Store at room temperature.	Room temp.	Referral
Homocysteine	See report	REF	1 Full LAV top EDTA tube on ICE, Deliver immediately.	Spin immediately in refrigerated centrifuge and aliquot, store refrigerated.	Refrigerated	Referral

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Homovanillic Acid, Urine	See report	REF	24 hour urine collected in 6NHCL. Refrigerate during collection.	Refrigerate. Send 30 mL aliquot. Record total volume and collection period (hours) on requisition.	Refrigerated	Referral
HTLV-I Antibody	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Human Chorionic Gonadotropin (hCG)	See report This is a quantitative test.	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate	Refrigerated	Referral
17-Hydroxyprogesterone	See report	REF	Red top NO GEL	Allow to clot, centrifuge, aliquot and refrigerate.	Refrigerated	Referral
Immunoglobulins						
IgA	60 - 350 mg/dL	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily
IgE	See report	REF	Gold top SST	Allow to clot, centrifuge, and store at room temp	Room Temp	Referral
IgG	Serum: 620 - 1400 mg/dL	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate	Refrigerated	Daily
	CSF: See report	REF	2 mL CSF in leak-proof container. CSF should be accompanied with a serum specimen. Gold top SST	Allow blood tube to clot, centrifuge, remove serum and refrigerate.	Refrigerated	Referral
IgM	40 - 260 mg/dL	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Influenza/RSV RT-PCR	Negative for Influenza A and Influenza B	MI	Collect nasopharyngeal specimen using virus collection kit.	Place swab in transport medium and store refrigerated. Transport to lab within 24 hrs of collection.	Refrigerated	As requested
Influenza A&B Antibody Quant	See report	REF	Gold top SST	Allow to clot. Centrifuge and store at room temperature	Room Temp	Referral
Insulin	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerate	Referral
Lactic Acid	Venous: 0.4 - 2.0 MMOL/L	CHEM	Gray top tube Collect and place immediately on ice. Avoid tourniquet and hand clenching.	Centrifuge (in a refrigerated centrifuge if available), remove plasma and refrigerate immediately.	Refrigerated	Daily
Lamotrigine	See report	REF	Draw 30 min prior to next dose. Red top NO GEL	Allow to lot. Centrifuge, aliquot and freeze.	Frozen	Referral
Lead, Whole Blood	See report	REF	Dk Blue top tube	Store at room temperature. Do not centrifuge	Room temp.	Referral
Legionella Culture	No Legionella isolated	MI	Collect sputum, respiratory aspirate or lung tissue in sterile container.	Store refrigerated.	Refrigerated	Daily
Legionella Urinary Antigen	Negative	MI	Collect at least 1.0 mL of urine in a sterile container.	Store refrigerated.	Refrigerated	Mon-Sat Day shift
Leukocyte Alkaline Phosphatase (LAP score)	11 - 95 index	HEM (REF)	10 mL blood (green top tube) Delivered to the lab immediately	Make slides. Must arrive at testing facility within 7 days.	Room temp.	Mon - Fri
Levetiracetam	See report	REF	Draw TROUGH immediately prior to next dose. Red top NO GEL	Allow to clot. Centrifuge, aliquot and store at room temperature.	Room temp	Referral
Lidocaine	Therapeutic: 1.5 - 5.0 ug/mL	REF	Gold top SST	Allow to clot. Centrifuge, remove serum and refrigerate.	Refrigerated	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Lipase	8 - 78 U/L	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Lipid Profile	CHOLESTEROL: See report. Low Risk: <200 mg/dL Borderline: 200 - 239 mg/dL High Risk: ≥240 mg/dL HDL: Desirable: ≥35 mg/dL High Risk: <35 mg/dL LDL: Desirable: <130 mg/dL Borderline: 130 - 159 mg/dL High Risk: ≥160 mg/dL TRIGLYCERIDE: Desirable: <200 mg/dL Borderline: 200 - 400 mg/dL High Risk: >400 mg/dL LDL is a calculated parameter. See report.	CHEM	Gold top SST Fasting 10 - 12 hours required.	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Lipoprotein Profile	Includes Lipoprotein typing and quantitation of Cholesterol and Triglycerides.	REF	Gold top SST. Fasting 10 - 12 hours is required.	Allow to clot, centrifuge and store at room temp	Room Temp	Referral
Lithium	0.5 - 1.2 mEq/L	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Liver Fibrosis Panel	See report	REF	(2) Gold top SST delivered to the lab immediately	Spin & aliquot within 1 hour.	Frozen	Referral
Liver/Kidney-Microsomal Antibody	Negative	REF	Gold Top SST	Allow to clot, centrifuge and refrigerate.	Refrigerated	Referral

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Lower Respiratory Culture	Normal respiratory flora: Alpha-hemolytic streptococci, non-hemolytic streptococci, <i>Micrococcus</i> sp, <i>Neisseria</i> sp, diphtheroid bacilli, <i>Haemophilus</i> species. Potential pathogens when organism is predominating: <i>Haemophilus influenzae</i> , Enterobacteriaceae, Gram negative rods, <i>Neisseria meningitidis</i> , <i>Streptococcus pneumoniae</i> , <i>Staphylococcus aureus</i> , <i>Moraxella catarrhalis</i> , yeast and beta hemolytic streptococcus. Expecterated sputums are evaluated for specimen quality. Specimens excessively contaminated with oral secretions are not cultured and a repeat specimen is requested.	MI	Suction trap or sterile capped container.	Refrigerate	Refrigerated	Daily
Lupus Anticoagulant (DRVVT)	Normal: Ratio of 0.8 - 1.2 Abnormal: Ratio of 1.2 - 1.5 LA weakly present Ratio of 1.5 - 2.0 LA moderately present Ratio of >2.0 LA strongly present	HEM	Light blue top tube Deliver to lab immediately	Transport to laboratory immediately or centrifuge, remove plasma, centrifuge again, remove 2 mL of plasma and freeze.	Frozen	Daily
Luteinizing Hormone	See report	CHEM	Gold top SST	Allow to clot, centrifuge, and freeze.	Frozen	M/W/F
Lyme Titer	See report	NYS	Gold top SST	Allow clotting, centrifuge and refrigerate. NYSDOH questionnaire must accompany specimen.	Refrigerated	Referral
Lymphoma / Leukemia Markers	Complete panel includes the following markers: CD10, CD19, CD23, CD7, CD3, HLA-DR, CD20, CD5, CD45, CD4, CD8, CD2, CD33, CD34, CD13, CD11b, Kappa light chain, and Lambda light chain.	HEM (REF)	Blood: 10 mL peripheral blood in yellow top tube and 5 mL in lavender top tube for a CBC. Bone marrow: 2 mL bone marrow (green top tube). Samples accepted Mon. through Thurs. ONLY.	Store at room temperature. Specimens must be received by the lab on the same day as collected. Send CBC with specimen to testing facility.	Room temp.	Mon - Thurs
Magnesium, Serum	1.9 - 2.7 mg/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Magnesium, 24 Hour Urine	40 - 180 mg/24 Hr	CHEM	24 hour urine collection in plain or HCL bottle. Refrigerate during collection.	Send 10 mL aliquot. Record total volume and collection period (hours) on requisition. Refrigerate.	Refrigerated	Daily
Magnesium, Random Urine	Not applicable	CHEM	10 mL fresh random urine.	Refrigerate.	Refrigerated	Daily
Manganese, Plasma	See report	REF	Dk Blue top tube	Centrifuge, remove plasma and store at room temperature.	Room temp.	Referral
Measles (Rubeola) IgG Antibody	Immune	MI	Gold top SST	Allow to clot. Centrifuge, remove and refrigerate.	Refrigerated	2 times/week
Metanephrine Panel	Includes Metanephrine and Normetanephrine See Report	REF	24 hour urine: collect in HCL bottle. Refrigerate during collection.	Refrigerate. Send minimum 100 mL aliquot. Record total volume and collection period (hours) on requisition.	Refrigerated	Referral
Methadone Screen, Urine, Qualitative	Qualitative Negative/Presumptive Positive results reported. Does not include confirmatory testing on presumptive positives.	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate up to 24 hours or freeze.	Refrigerated or frozen	Daily
Methicillin Resistant Staphylococcus Aureus (MRSA) Surveillance Nares DNA	Negative	MI	Use Culturette system to collect nares swab. After collection insert swab into Culturette tube.	Store swab at room temperature.	Swab: Room temp.	Mon - Sat
Methicillin Resistant Staphylococcus Aureus (MRSA) Surveillance Other Agar	Negative	MI	Use Culturette system to collect swab specimens. After collection insert swab into Culturette tube. >1.0 mL clean catch urine or other fluids in sterile container with secure lid.	Store swab at room temperature. Refrigerate urine or fluid.	Swab: Room temp. Urine or fluid: Refrigerated	Daily
Methotrexate	See report	REF	Red top NO GEL	Allow to clot. Centrifuge, remove serum and freeze.	Frozen	Referral
Methylmalonic Acid	See report	REF	Gold top SST	Allow to clot. Centrifuge and store	Refrigerated	Referral
Mexiletine	See report	REF	Red top NO GEL	Allow to clot. Centrifuge, remove serum and refrigerate.	Refrigerated	Referral

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Microalbumin, 24 Hour Urine	0 - 15 mg/DAY Only specimens with protein < 110 mg/dL will be tested.	CHEM	24 hour urine. Refrigerate during collection.	Send 10 mL aliquot. DO NOT send in glass container. Record total volume and collection period (hours) on requisition. Refrigerate up to 72 hours.	Refrigerated	Daily
Microalbumin, Random Urine	0.0 - 1.9 mg/dL Only specimens with protein < 110 mg/dL will be tested.	CHEM	10 mL fresh random urine.	Refrigerate. Store in plastic (DO NOT use glass containers) up to 72 hours.	Refrigerated	Daily
Mitochondrial M2 Antibody	See report	REF	Gold top SST delivered to the lab immediately	Spin & aliquot within 1 hour, store at room temperature	Room Temp	Referral
Monotest	Negative	MI	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Mon-Sat Day shift
Morphine, Total	See report	REF	Red top NO GEL delivered to lab immediately	Spin & aliquot within 2 hours, store refrigerated.	Refrigerated	Referral
Mumps IgG Antibody	Immune	MI	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	2 times/week
Mycobacteria Culture & Smear	See AFB Culture & Smear	MI				
Mycology Culture	No fungi isolated. 4 weeks required for negative result for most cultures	MI	Scrapings or fluids (minimum 1.0 mL) are collected in a capped sterile container. Collect swab specimens for yeast using Culturette swab. After collection insert swab into culturette tube.	Scrapings and fluids: Store refrigerated. Swabs: Store at room temperature.	Swabs: Room temp. Scrapings and fluids: Refrigerated	Daily
Mycology, KOH Prep	No mycotic elements seen	MI	Refer to Mycology Culture for specimen collection instructions.	Refer to Mycology Culture for handling instructions.	Refer to Mycology Culture for transport instructions.	Mon-Sat Day shift
Mycoplasma Antibody Panel	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Myelin Basic Protein	See report	REF	2 mL CSF.	Refrigerate.	Refrigerated	Referral
Myoglobin, Urine, Qualitative	Negative	REF	4mL of random urine. M-F only. Delivered to Lab immediately and aliquoted within 1 hour	If dipstick is positive for blood transfer to Myoglobin transport tube & freeze within 1 hour. Send same day.	Refrigerated	Referral

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
N-telopeptide, serum	See report	REF	Gold top SST	Allow to clot. Centrifuge, aliquot and freeze.	Frozen	
Neisseria Gonorrhoeae Culture	No Neisseria gonorrhoeae isolated	MI	Collect male urethral, female endocervical, or rectal or throat specimens using Culturette system. After collection, insert swab into Culturette tube.	Store at room temperature.	Room temp.	Daily
Occult Blood, Fecal	Negative	MI	Occult blood slide	Store at room temp.	Room temp.	Daily
Opiates / Opioids Screen, Urine, Qualitative	Qualitative Negative/Presumptive Positive results reported. Does not include confirmatory testing on presumptive positives.	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate up to 24 hours or freeze.	Refrigerated	Daily
Osmolality, Serum	275 - 295 mOsm/kg	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Osmolality, Urine	350 - 900 mOsm/kg	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate	Refrigerated	Daily
Osteocalcin N-MID	See report	REF	Gold top SST, delivered to lab immediately	Spin & Freeze immediately after clotting	Frozen	Referral
Ova And Parasite Exam		MI				
Routine O&P Screen	No Cryptosporidium or Giardia antigen	MI	Collect one stool sample (free of barium and oil) in a clean container.	Place sample in O&P Routine kit. Pink top vial only. Store at room temp.	Room temp.	Mon – Sat Day shift
Comprehensive O&P	No Cryptosporidium or Giardia antigen. No ova or parasites observed. Call the microbiology laboratory at 626-5716 for special requests e.g. Cyclospora or Microsporidium.	MI (REF)	Collect stool as above. Three samples collected at intervals of 2-3 days are required.	Place sample in O&P Comprehensive kit. Pink <u>and</u> blue top vials. Store at room temp. History of recent travel outside of the United States required.	Room temp.	Referral
Oxalate, Urine	See report	REF	24 hour urine collection in plain or HCL bottle. Refrigerate during collection.	Refrigerate. Send 100 mL aliquot. Record total volume and collection period (hrs) on requisition.	Refrigerated	Referral
Oxycodone	Qualitative Negative/Presumptive Positive results reported. Does not include confirmatory testing on presumptive positives.	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate up to 24 hours or freeze.	Refrigerated	Daily
Pap Smear	See Cytology, Genital	PATH				

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Parathyroid Hormone (PTH)	8.7 - 77.1 pg/mL	CHEM	LAV top EDTA	Spin at 1000g for 20 minutes, aliquot and refrigerate.	Refrigerated	Mon - Fri
Partial Thromboplastin Time APTT	26.4 - 28.7	HEM	5 mL blood (light blue top tube)	Store refrigerated. Transport within 4 hours of collection or centrifuge, aliquot and freeze.	Refrigerated or frozen	Daily
Partial Thromboplastin Time Mixing Study	26.4 - 28.7	HEM	Collect two 5 mL light blue top tubes of blood. Refrigerate immediately	Store refrigerated. Transport within 4 hours of collection or centrifuge, aliquot and freeze.	Refrigerated or frozen	Mon - Fri
pH (Body Fluids)	See report	CHEM	1.5 - 2.0 mL in syringe. No anticoagulant.	Refrigerate. Transport within 4 hours.	Refrigerated	Daily
Phencyclidine Screen, Urine, Qualitative	Qualitative Negative/Presumptive Positive results reported. Does not include confirmatory testing on presumptive positives.	CHEM	5 mL fresh random urine. No preservatives.	Refrigerate up to 24 hours or freeze.	Refrigerated or frozen	Daily
Phenobarbital	15 - 40 ug/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Phenytoin (Dilantin)	Therapeutic: 10-20 ug/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Phenytoin, Free	See report	REF	Red top NO GEL	Centrifuge, remove serum, and refrigerate.	Refrigerated	Referral
Phosphorus, Serum	2.5 - 4.5 mg/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Phosphorus, 24 Hour Urine	400 - 1700 mg/24 Hr	CHEM	24 hour urine collection in plain or HCL bottle. Refrigerate during collection.	Send 10 mL aliquot. Record total volume and collection period (hours) on requisition. Refrigerate.	Refrigerated	Daily
Phosphorus, Random Urine	Not applicable	CHEM	10 mL fresh random urine.	Refrigerate	Refrigerated	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Platelet Aggregation	Negative	HEM	Schedule patient to be drawn at VA Medical Center in Albany. Call Hematology at x 65750 for requirements (4) blue top tubes	Do NOT spin! Test must be performed within 1 hour of collection.		Upon request M-F days
Platelet Count	150 - 450	HEM	LAV top EDTA tube	Make smear. Store refrigerated. Transport within 24 hours.	Refrigerated	Daily
Porphobilinogen, Random Quantitative	See report	REF	Fresh random specimen (25 mL minimum). Protect from light.	Protect from light. Freeze.	Frozen	Referral
Porphobilinogen, 24 Hr Quantitative	See report	REF	24 hour urine collected in plain bottle. Refrigerate during collection. Protect from light.	Protect from light. Freeze. Send minimum 25 mL aliquot. Record total volume and collection period (hours) on requisition.	Frozen	Referral
Porphyrins, Urine, Quantitative	Includes Coproporphyrin and Uroporphyrin. See report	REF	24 hour urine collection in plain bottle. Refrigerate during collection. Protect from light.	Refrigerate. Protect from light. Send minimum 25 mL aliquot. Record total volume and collection period (hours) on requisition.	Refrigerated	Referral
Potassium, Serum	3.8 - 5.1 mEq/L	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Potassium, 24 Hour Urine	27 - 116 mEq/24 Hr	CHEM	24 hour urine in plain bottle. Refrigerate during collection.	Send 10 mL aliquot. Record total volume and collection period (hours) on requisition. Refrigerate.	Refrigerated	Daily
Potassium, Random Urine	Not applicable	CHEM	10 mL fresh random urine.	Refrigerate	Refrigerated	Daily
Pre-Albumin, Serum	17 - 42 mg/dL	CHEM	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Daily
Pregnancy Test, Serum	Non-pregnant female: Negative	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Pregnancy Test, Urine	Non-pregnant female: Negative	HEM	10 mL of random urine in clean container with no preservative. First morning urine is optimal	Store refrigerated. Test within 48 hours.	Refrigerated	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Primidone	See report	REF	LAV top EDTA	Spin and aliquot EDTA plasma	Refrigerated	Referral
Procainamide & NAPA	See report	REF	Red top NO GEL	Allow to clot. Centrifuge, remove serum and refrigerate.	Refrigerated	Referral
Procalcitonin	See report	Micro (REF)	Gold top SST	Allow to clot. Centrifuge, remove serum and freeze.	Frozen	Referral
Progesterone	See report	REF	Red top NO GEL	Allow to clot. Centrifuge, remove serum and refrigerate.	Refrigerated	Referral
Prolactin	See report	CHEM	Gold top SST	Allow to clot. Centrifuge, remove serum and freeze.	Frozen	M/W/F
Prostate Specific Antigen, Total	0 - 4 ng/mL	CHEM	Gold top SST	Allow to clot. Centrifuge, and refrigerate up to 48 hours or freeze.	Refrigerated or frozen	Daily
Protein, CSF	15 - 45 mg/dL	CHEM	0.5 mL spinal fluid	Refrigerate	Refrigerated	Daily
Protein, Total, Serum	6.2 - 7.8 g/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Protein, 24 Hour Urine	80 - 250 mg/24 Hr	CHEM	24 hour urine collection in plain bottle. Refrigerate during collection.	Send 10 mL aliquot. Record total volume and collection period (hours) on requisition. Refrigerate.	Refrigerated	Daily
Protein, Random Urine	Not applicable	CHEM	10 mL fresh random urine. No preservative.	Refrigerate	Refrigerated	Daily
Protein C	Protein C: 70-180%	HEM (REF)	Collect 5 mL (light blue top tube) Deliver to the lab immediately	Transport within 4 hours of collection or centrifuge, aliquot, and freeze.	Frozen	Referral
Protein S	Protein S: 70-150%	HEM (REF)	Collect two 5 mL (light blue top tubes) Deliver to the lab immediately	Spin within 1 hour of collection, aliquot, and freeze.	Frozen	Referral
Protein Electrophoresis						
CSF	See report	SER	2 mL spinal fluid	Refrigerate	Refrigerated	1 time/week
24 Hour Urine	See report	SER	Collect 24 hour urine in plain bottle. Keep specimen refrigerated during collection.	Send 25 mL aliquot. Record total volume and collection period (hours) on requisition. Refrigerate.	Refrigerated	1 time/week
Random Urine	See report	SER	25 mL fresh random urine. No preservative.	Refrigerate. Record total volume on requisition.	Refrigerated	1 time/week
Serum (SPEP)	See report	SER	Gold top SST	Allow to clot, centrifuge, aliquot 1 mL serum and refrigerate.	Refrigerated	1 time/week

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Prothrombin Time (PT/INR)	10.5 - 11.3 seconds	HEM	5 mL of blood in light blue top tube	Store refrigerated. Transport within 24 hours of collection or centrifuge, aliquot and freeze.	Refrigerated or frozen	Daily
Protoporphyrin, FEP/ZPP	See report	REF	1 full Dk Blue top tube	Store at room temperature.	Room temp.	Referral
PTH Related Protein	See report	REF	1 full Green top, sodium heparin tube delivered immediately to the lab	Centrifuge and remove plasma immediately.	Room Temp	Referral
Pyruvic Acid	See report	REF	5 mL blood (gray top tube) Or 2mL CSF	Immediately add 5 mL blood to 5 mL 8% perchloric acid, centrifuge and remove supernatant.	Refrigerated	Referral
Quantiferon	See report	REF	3 special collection tubes mixed well by inverting 10x	Incubate whole blood upright 16-24hrs in 37degree incubator, ship next day at room temperature/	Room temp	Referral
Quinidine	See report	REF	Red top NO GEL	Allow to clot. Centrifuge, remove serum and refrigerate.	Refrigerated	Referral
Rapamycin (Sirolimus)	See report	REF	LAV top EDTA tube	Send 1 full lav top EDTA tube refrigerated	Refrigerated	Referral
RAST, Allergy Tests	See report	REF	Gold top SST (1 tube per 10 allergens)	Allow to clot. Centrifuge, remove serum and refrigerate.	Refrigerated	Referral
Renin Activity, Plasma	See report	REF	LAV top EDTA tube	Centrifuge remove plasma and freeze. OK refrigerated during transport from CBOC locations.	Frozen	Referral
Respiratory viral panel (RVP) Flu A, Flu B, Parafu, Adeno, RSV, Rhino, Metapneumo	Negative	Micro (REF)	Nasopharyngeal swab OR Bronchial wash/Lavage Collect and place immediately on ice.	Transport ASAP	Frozen	Referral
Reticulocytes	0.5 - 1.5%	HEM	LAV top EDTA tube	Store refrigerated. Transport within 24 hours.	Refrigerated	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Rheumatoid Factor	Negative: <10 IU/mL Positive samples are titered	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
RPR	Non-reactive Positive RPRs are titered and referred for TP-PA confirmation.	MI	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	1 time/week
Rubella IgG Antibody	Immune	MI	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	2 times/week
Saccharomyces Cerevisiae Ab	See report	REF	Gold top SST delivered to the lab immediately	Centrifuge and aliquot within 1 hour of collection	Refrigerated	Referral
Salicylate	3 - 20 mg/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Sedimentation Rate	Male: 0 - 15 MM/HR Female: 0 - 20 MM/HR	HEM	LAV top EDTA tube	Store refrigerated. Transport within 12 hours.	Refrigerated	Daily
Selenium, Whole Blood	See report	REF	Dk Blue top tube Delivered Immediately	Spin and Aliquot plasma into metal free transport tube.	Refrigerated	Referral
Serotonin, Serum	See report	REF	Gold top SST	Spin & aliquot within 2 hours of draw.	Frozen	Referral
Sickle Cell Screen	Negative	HEM	LAV top EDTA tube	Store refrigerated. Transport within 24 hours.	Refrigerated	Daily
Smooth Muscle Antibody	Negative	REF	Gold Top SST	Allow to clot, centrifuge, aliquot serum and store at room temp.	Room temp.	Referral
Sodium, Serum	135 - 145 mEq/L	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Sodium, 24 Hour Urine	60 - 260 mEq/24 Hr	CHEM	24 hour urine in plain bottle. Refrigerate during collection.	Send 10 mL aliquot. Record total volume and collection period (hours) on requisition. Refrigerate.	Refrigerated	Daily
Sodium, Random Urine	Not applicable	CHEM	10 mL fresh random urine.	Refrigerate	Refrigerated	Daily
Somatomedin-C/IGF1	See report	REF	Gold top SST	Allow to clot. Centrifuge and store	Refrigerated	Referral
Sputum Culture	See Lower Respiratory Culture					
Sterile Fluid Culture	Includes STAT gram stain and culture. Any organism may be considered a pathogen.	MI	Minimum of 1.0 mL fluid in sterile container with secure lid.	Transport immediately after collection	Room temp.	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Strep A Rapid Antigen	Streptococcus Gp A Antigen Negative Negative samples are referred for culture	MI	Collect sample using culturette swab. After collection insert swab into culturette tube.	Store at room temp or refrigerated. Must be received by lab within 48 hours of collection.	Room temp or Refrigerated	Daily
Stone Analysis	See report	ANAT-Path	Place in appropriate size container. Do not send urine.	Send in original container.	Room temp.	Referral
Stool Culture	Identifies <i>Salmonella</i> , <i>Shigella</i> , <i>Campylobacter</i> and <i>Enterohemorrhagic E. coli</i> (including O157:H7). Includes campy Ag and Shigatoxin Ag tests. In addition, significant quantities of <i>Staphylococcus</i> , <i>Pseudomonas</i> , <i>Bacillus</i> and yeast are identified if present. All other identifications require special request (i.e. <i>Yersinia</i> , <i>Vibrio</i>).	MI	Collect 5 mL of sample in clean container free of urine.	Place sample in Stool C&S kit (yellow top vial). Store at room temp.	Room temp.	Daily
Streptococcus pneumoniae Urinary Antigen	Negative	MI	Collect at least 1.0 mL of urine in a sterile container.	Store refrigerated.	Refrigerated	Mon-Sat Day shift
Streptolysin O Ab	See Report	REF	Gold top SST	Allow to clot. Centrifuge and freeze.	Frozen	Referral
T3, Total	60 - 150 ng/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate up to 48 hours or freeze.	Refrigerated or frozen	M/W/F
T3, Free	See report	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
T3 Uptake	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
T4 (Thyroxine), Free	0.7 - 1.5 ng/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
T4 (Thyroxine), Total	See report	CHEM (REF)	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
T4 Binding Globulin	See report	CHEM (REF)	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
T-Cell Panel (CD4/CD8)	Panel includes: CD4 and CD8. CD4 40 - 57% 385 - 1159 cells/cmm CD8 13 - 33% 87 - 618 CELLS/CMM Ratio: 1.6 - 4.4	HEM (REF)	Collect 1 yellow top and 1 lavender top tube (for CBC). Collect ONLY on Mon. - Thurs.	Store at room temperature. Ship same day	Room temp.	Mon-Thurs
Tacrolimus	See report	REF	LAV top EDTA tube	Send whole blood in 1 full lav top tube	Room temp	Referral
Testosterone, Free		CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Mon-Fri
Testosterone, Total	Male: 241 - 827 ng/dL Female: 14 - 76 ng/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Mon - Fri
Theophylline	Therapeutic: 10 - 20 ug/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Throat Culture	See Strep A Rapid Antigen	MI				
Thrombin Time	14 - 21 seconds	HEM	5 mL of blood in light blue top tube.	Store refrigerated. Transport within 4 hours or freeze.	Refrigerated or frozen	Daily
Thyroid Cancer Monitoring Panel	See report	REF	Gold top SST	Allow to clot. Centrifuge and store	Room temp	Referral
Thyroid Stimulating Hormone (TSH)	0.35 - 5.50 uIU/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Thyroid Stimulating IG	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Thyroxine, Total	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Tissue Biopsy Culture	Includes Gram stain and culture. If normally sterile site, any organism isolated may be considered a potential pathogen.	MI	Tissue in sterile capped container.	Refrigerate	Refrigerated	Daily
Tissue Transglutaminase IgA & IgG	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Tobramycin	Therapeutic Peak: 4 - 8 ug/mL Therapeutic trough: <2 ug/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Toxoplasma Antibody IgG & IgM	See report	REF	Gold top SST	Allow to clot. Centrifuge, aliquot serum and refrigerate.	Room Temp	Referral
TPO & Thyroglobulin Abs	See report	REF	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Referral
Tracheal Aspirate Culture	See Lower Respiratory Culture	MI				
Tramadol Scrn/Cfm, serum	See report	REF	(2) Red top NO GEL	Allow to clot. Centrifuge aliquot and refrigerate.	Refrigerated	Referral
Trichomonas	Negative (Also see VAGINITIS DNA PROBE for Females)	HEM	10mL Urine Male patients only Delivered to the Lab within 1 hour of collection. Swabs or cultures are not acceptable.	Centrifuge and examine within 1 hour of collection	Room temp.	Daily
Triglyceride	Desirable: <200 mg/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Tryptase	See report	REF	Draw specimen 15minutes-3hours after suspected event. Gold top SST	Spin and aliquot serum within 3 hours of collection, store refrigerated	Refrigerated	Referral
T-SPOT TB	Negative	Micro (REF)	2 full green top tubes Mon-Fri before Noon	Ship same day	Room temp.	Referral
Urea Nitrogen, Serum	9 - 26 mg/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Urea Nitrogen, 24 Hour Urine	4,000 - 20,000 mg/24 Hr	CHEM	24 hour urine in plain bottle. Refrigerate during collection.	Send 10 mL aliquot. Record total volume and collection period (hours) on requisition. Refrigerate.	Refrigerated	Daily
Urea Nitrogen, Random Urine	Not applicable	CHEM	10 mL fresh random urine.	Refrigerate	Refrigerated	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Ureaplasma/ Mycoplasma culture	Negative	Micro (REF)	Urethral/genital swab in VTM (Viral transport media)	Refrigerate	Refrigerated	Referral
Urethral Culture	See Genital Tract Culture					
Uric Acid, Serum	Male: 3.9 - 9.0 mg/dL Female: 2.2 - 7.7 mg/dL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Uric Acid, 24 Hour Urine	220 - 850 mg/24 Hr	CHEM	24 hour urine collection in plain bottle. Refrigerate during collection.	Send 10 mL aliquot. Record total volume and collection period (hours) on requisition. Refrigerate.	Refrigerated	Daily
Uric Acid, Random Urine	Not applicable	CHEM	10 mL fresh random urine.	Refrigerate	Refrigerated	Daily
Urine Culture	Colony count of 10,000 to <100,000 may be significant in symptomatic patients. Colony count of \geq 100,000 may be considered a potential pathogen.	MI	Collect at least 1 mL of clean catch or straight catheter urine in sterile container with secure lid. Do not collect from Foley catheter bag.	Store refrigerated for up to 24 hours. Alternatively, specimen can be transferred to urine transport tube and stored at room temperature up to 48 hours.	Specimen cup: Refrigerated Transport tube: Room temp.	Daily
Urinalysis	Microscopic exam is performed if blood, protein, nitrite or leukocyte esterase is positive. Specific gravity: 1.016-1.022 pH: 5.0-9.0 Glucose: Negative Ketones: Negative Bilirubin: Negative Urobilinogen: 0.2-1.0 mg/dL Blood: Negative Protein: Negative-Trace Nitrite: Negative Leukocyte esterase: Negative	UA	10 mL of urine in sterile container with secure lid.	Store refrigerated. Transport to laboratory within 24 hours of collection. Alternatively, specimen can be transferred to urine transport tube and stored at room temperature for up to 48 hours.	Specimen cup: Refrigerated Transport tube: Room temp.	Daily
Valproic Acid	Therapeutic: 50 - 125 ug/mL	CHEM	Gold top SST	Allow to clot. Centrifuge, remove serum and refrigerate.	Refrigerated	Daily
Vaginitis DNA Probe	Negative for Trichomonas, Gardnerella and Candida	MI	Use BD Affirm transport system to collect vaginal specimens	Store capped swab at room temp or refrigerated	Room temp or refrigerate	Mon-Fri Day shift

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Vancomycin	Therapeutic peak 30 minutes after IV infusion or 1 hour after IM injection: 30 - 40 ug/mL, trough: 10 - 20 ug/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Vancomycin Resistant Enterococcus (VRE) Screen	No VRE isolated	MI	Use Culturette system to collect swab specimens. After collection insert swab into culturette tube. >1.0 mL clean catch urine in sterile container with secure lid.	Store swab at room temperature. Refrigerate urine.	Swab: Room temp. Urine: Refrigerated	Daily
Varicella Zoster IgG/IgM Antibody	Immune	MI	Gold top SST	Allow to clot, centrifuge and refrigerate.	Refrigerated	2 times/week
Vasoactive Intestinal Peptide (VIP)	See report	REF	2 full LAV top EDTA tubes	Centrifuge, remove plasma and freeze.	Frozen	Referral
Vibrio Culture	No <i>Vibrio sp.</i> isolated	MI	Collect stool sample in clean container.	Place sample in Stool C&S kit (yellow top vial). Store at room temp.	Room temp.	Daily
Viral encephalitis Serology*	Order with CSF* Nonreactive	Micro (REF)	Gold top SST	Allow to clot, centrifuge, and refrigerate.	Refrigerated	Referral
Viral Encephalitis PCR CSF*	Order with Serology* Not detected	Micro (REF)	3ml CSF in sterile container	Transport to lab ASAP	Frozen	Referral

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
Vitamin A, Retinol	See report	REF	Gold top SST Collected on ice. Protect from light.	Allow to clot. Centrifuge, remove serum and freeze within 1 hour.	Frozen	Referral
Vitamin B1, Thiamine	See report	REF	2 full LAV top EDTA tubes, protected from light and delivered to the lab immediately	Centrifuge and aliquot within 4 hours of draw.	Frozen	Referral
Vitamin B6, Pyridoxine	See report	REF	1 full LAV top EDTA tube Protected from light.	Centrifuge, remove plasma and freeze within 6 hours.	Frozen	Referral
Vitamin B12, Cyanocobalamin	211 - 911 pg/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate.	Refrigerated	Daily
Vitamin C, Serum	See report	REF	Gold top SST on ICE Protect from light.	Allow to clot. Centrifuge refrigerated, remove serum and freeze.	Frozen	Referral
Vitamin D, 1,25-Dihydroxy	See report	REF	Gold top SST	Allow to clot. Centrifuge and store at room temperature	Room Temp	Referral
Vitamin D, 25 Hydroxy	Deficient: <12 ng/mL Insufficient: 12-20 ng/mL Sufficient: >20 ng/mL Potential Intoxication: >50 ng/mL	CHEM	Gold top SST	Allow to clot. Centrifuge and refrigerate,	Refrigerated	Mon- Fri
Vitamin E, Tocopherol	See report	REF	Gold top SST Protect from light. Deliver to lab immediately	Allow to clot. Centrifuge and refrigerate within 1 hour of collection. Protect from light.	Refrigerated	Referral
Volatile Screen	See report	REF	Red top NO GEL	Do not open tube. Refrigerate Automatically approved if osmol gap >10, otherwise must be approved by Pathology.	Refrigerated	Referral
Wound Culture	Potential pathogens: Staphylococcus aureus, Beta-hemolytic streptococci, Pseudomonas aeruginosa or enteric gram negative rods if predominating. Multiple organisms may indicate colonization and not infection.	MI	Use Culturette system to obtain swab of drainage, aspirate, or deep wound sample. After collection insert swab into culturette tube.	Store at room temp. For up to 24 hours.	Room temp.	Daily

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Test	Reference Values/Interpretation	Lab	Specimen Collection	Handling Instructions	Transport	Test Frequency
XaLMWH	See report	HEM	Draw 4+ hours after dose Light blue top tube	Spin and separate within 1 hour	Frozen	Daily
XaUFH	See report	HEM	Light blue top tube	Spin and separate within 1 hour	Frozen	Daily
Xylose Absorption/Tolerance Test, Serum & Urine	See report	REF	Gray top tube Collect fasting and 2 hour blood specimens. 5 hour urine specimen, collected during testing.	Centrifuge, aliquot plasma and refrigerate. 10mL urine aliquot stored at room temperature/	Refrigerate Plasma Room Temp Urine	Referral
Yersinia Culture	No Yersinia sp. isolated	MI	Collect stool sample in clean container free of urine.	Place sample in Stool C&S kit (yellow top vial). Store at room temp.	Room temp.	Daily
Zinc, Serum	See report	REF	Full Dk Blue top EDTA tube Delivered immediately to Lab	Centrifuge and aliquot plasma within 2 hours into a metal free tube. Store refrigerated.	Refrigerated	Referral