

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
<p>***CPT Code is subject to a <u>MEDICARE LIMITED COVERAGE POLICY</u> ABN is required when ordering.</p>										
10PNL DRUG TEST	***80307	30 mL urine	Urine collected in urine collection container	7 mL		Clinical drug test transport vial	Room temperature	Room temperature : 5 days, Refrigerated : 7 days, Frozen: 30 days	Preserved samples	Mon-Fri
17-oh Progesterone	87338	0.5 mL serum collected in a red-top tube (no gel)	Plasma collected in: EDTA (royal blue-top) tube, sodium heparin (green-top) tube, lithium heparin (green-top) tube or EDTA (lavender-top) tube	0.25 mL	Separate serum after clotting. Ship serum refrigerated or frozen. Do not submit glass tubes.	Transport Tube	Refrigerated	Room temperature : 48 hours Refrigerated : 7 days Frozen: 2 years	Serum Separator Tube (SST®) • Glass tubes • Received room temperature	Mon-Fri
5PNL DRUG SCREEN	***80307	30 mL urine	Urine collected in urine collection container	7 mL	N/A	Clinical drug test transport vial	Room temperature	Room temperature : 5 days Refrigerated : 7 days Frozen: 30 days	Preserved samples	Mon-Fri
A1C	***83036	1 mL whole blood collected in an EDTA (lavender-top) tube	N/A	0.5 mL	N/A	EDTA (lavender-top) tube	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 6 months	Sodium fluoride/oxalate (gray-top) tube • Heparinized plasma	Mon-Fri
AFP (ALPHA-FETOPROTEIN)	***82105	1 mL serum	N/A	0.5 mL	N/A	SST	Room Temp	Room temperature : 14 days Refrigerated : 14 days Frozen: 45 days	Grossly lipemic	Mon-Fri
ALBUMIN	82040	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Serum and plasma: Room temperature : 7 days, Refrigerated : 30 days, Frozen: 6 months	Anticoagulants other than heparin	Mon-Fri

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ALDOSTERONE	82088	1 mL serum collected in a red-top tube (no gel)	Plasma collected in: EDTA (lavender-top), sodium heparin (green-top), or lithium heparin (green-top)	0.25 mL	Separate serum after clotting. Do not submit glass tubes. Draw "upright" samples at least 1/2 hour after patient sits up.	Transport Tube	Refrigerated	Room temperature : 4 days Refrigerated : 7 days Frozen: 28 days	Hemolysis • Lipemia • Serum Separator Tube (SST®) • Animal specimen	Mon-Fri
ALKALINE PHOSPHATASE	84075	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	Anticoagulants other than heparin	Mon-Fri
ALT	84460	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Serum and plasma: Room temperature : 72 hours, Refrigerated : 5 days, Frozen: Unacceptable	Anticoagulants other than heparin	Mon-Fri
Ammonia	82140	2 mL frozen plasma collected in an EDTA (lavender-top) tube	n/a	0.5 mL	Collect blood from stasis-free vein of patient (e.g., no tourniquet). Patient should not clench fist during collection, as muscular exertion often increases venous ammonia levels. Patient should avoid smoking prior to phlebotomy since smoking increases plasma ammonia levels. Tubes should be filled completely and kept tightly stoppered at all times. Place immediately on ice. Separate plasma from cells within 15 minutes and freeze plasma immediately.	Transport tube	Frozen	Room temperature : Unacceptable Refrigerated : Unacceptable Frozen -20° C: 72 hours Frozen -70° C: 7 days	Hemolysis • Received thawed • PPT Potassium EDTA (white-top) tube	Mon-Fri

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AMYLASE	82150	1 mL serum	n/a	0.5 mL	n/a	SST	Room Temp	Room temperature : 7 days Refrigerated : 7 days Frozen: 30 days	Gross hemolysis	Mon-Fri
ANA Screen,IFA, with Reflex to Titer and Pattern	86038	1 mL serum		0.5 mL	Transport tube	Transport tube	Room Temp	Room temperature : 4 days Refrigerated : 7 days Frozen: 30 days	Gross hemolysis • Grossly lipemic • Microbial contamination may interfere	Mon-Fri
Anti-HAV	86708	1 mL serum	Plasma collected in: EDTA (lavender-top) tube	0.5 mL	Dietary supplements containing biotin may interfere in assays and may skew analyte results to be either falsely high or falsely low. For patients receiving the recommended daily doses of biotin, draw samples at least 8 hours following the last biotin supplementation. For patients on mega-doses of biotin supplements, draw samples at least 72 hours following the last biotin supplementation.	SST	Room Temp	Room temperature : 14 days Refrigerated : 14 days Frozen: 30 days	Gross hemolysis • Grossly lipemic	Mon-Fri

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Anti-HBe	86707	1 mL serum	n/a	0.5 mL	Dietary supplements containing biotin may interfere in assays and may skew analyte results to be either falsely high or falsely low. For patients receiving the recommended daily doses of biotin, draw samples at least 8 hours following the last biotin supplementation. For patients on mega-doses of biotin supplements, draw samples at least 72 hours following the last biotin supplementation.	SST	Room Temp	Room temperature : 7 days Refrigerated : 14 days Frozen: 30 days	Gross hemolysis • Grossly lipemic • Plasma	Mon-Fri
APO lipoprotein A-1	82172	1 mL serum	n/a	0.5 mL	n/a	Transport tube	Room Temp	Room temperature : 7 days Refrigerated : 10 days Frozen: 30 days	Grossly lipemic	Mon-Fri
APO lipoprotein B	82172	1 mL serum	n/a	0.5 mL	n/a	Transport tube	Room Temp	Room temperature: 7 days Refrigerated: 10 days Frozen: 30 days	Grossly lipemic	Mon-Fri
AST	84450	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Serum and plasma: Room temperature : 4 days, Refrigerated : 7 days, Frozen: 5 days	Hemolysis • Anticoagulants other than heparin	Mon-Fri

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BILIRUBIN, DIRECT	82248	1 mL serum	Plasma from: Lithium heparin (green-top) tube, Sodium heparin (green-top) tube, Serum transferred to an amber transport vial	0.5 mL	Protect from light by wrapping a spun SST® in foil or transferring serum/plasma to an amber transport vial. Avoid hemolysis.	Spun Serum Separator Tube (SST®)	Room temperature	Room temperature : 24 hours *, Refrigerated : 72 hours*, Frozen: 90 days*, * If protected from light	Hemolysis • Anticoagulants other than heparin	Mon-Fri
BILIRUBIN, TOTAL	82247	1 mL serum	Serum transferred to an amber transport vial • Plasma from: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	0.5 mL	Protect from light by wrapping a spun SST® in foil or transferring serum or plasma to an amber transport vial. Avoid hemolysis.	Spun Serum Separator Tube (SST®)	Room temperature	Room temperature : 72 hours*, Refrigerated : 72 hours*, Frozen: 90 days*, *If protected from light	Hemolysis • Anticoagulants other than heparin	Mon-Fri
BMP	80048	1 mL serum	Spun SST® tube	0.5 mL		Serum Separator Tube (SST®)	Room temperature	Room temperature : 72 hours, Refrigerated : 72 hours, Frozen: 28 days	See individual tests	Mon-Fri
BNP	83880	1 mL frozen plasma collected in an EDTA (lavender-top) tube	N/A	0.5 mL	Collect specimen in a plastic EDTA (lavender-top) tube. Centrifuge tube and separate plasma into a plastic specimen transport tube within 1 hour. Freeze plasma immediately.	Transport tube	Frozen	Room temperature : 1 hour, Refrigerated : 1 hour, Frozen: 9 months Plasma Only	Collected in a glass tube • PPT potassium EDTA (white-top) tube	Mon-Fri
BUN	84520	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 5 days, Frozen: 28 days	Anticoagulants other than heparin	Mon-Fri
C Peptide	84681	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room Temp	Room temperature : 4 days Refrigerated : 7 days Frozen: 7 days	Gross hemolysis • Plasma	Mon-Fri

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CA 125	***86304	1 mL serum	N/A	0.5 mL	N/A	SST	Room Temp	Room temperature : 10 days Refrigerated : 12 days Frozen: 28 days	N/A	Mon-Fri
CA 15-3	***86300	1 mL serum	N/A	0.5 mL	N/A	SST	Room Temp	Room temperature : 7 days Refrigerated : 7 days Frozen: 28 days	Gross hemolysis • Grossly lipemic	Mon-Fri
CA 19.9	***86301	1 mL serum	N/A	0.5 mL	N/A	SST	Room Temp	Room temperature : 7 days Refrigerated : 7 days Frozen: 28 days	Gross hemolysis • Grossly lipemic	Mon-Fri
CA 27.29	***86300	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	Gross hemolysis	Mon-Fri
CALCIUM	82310	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Serum and plasma: Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	Anticoagulants other than heparin	Mon-Fri

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CALCIUM, 24 HR URINE WITHOUT CREATININE	82340	10 mL aliquot of a well-mixed, 24-hour collection	Unpreserved urine • Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Refrigerate during and after collection. Collect urine with 25 mL of 6N HCl to maintain a pH <3. Do not include first morning specimen; collect all subsequent voidings. The last specimen collected should be the first morning specimen voided the following morning at the same time as the previous morning's first voiding. Specify 24-hour total volume and collection duration on specimen container and test requisition.	Plastic urine container	Room temperature	Room temperature : 5 days, Refrigerated : 35 days, Frozen: 6 months	N/A	Mon-Fri
CALCIUM, RANDOM URINE WITHOUT CREATININE	82310	10 mL random urine	Unpreserved urine • Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Adjust pH to <3 with 6N HCl	Plastic urine container	Room temperature	Room temperature : 5 days, Refrigerated : 35 days, Frozen: 6 months	N/A	Mon-Fri
CALPROTECTIN	83993	3 grams solid stool collected in a clean leak-proof plastic screw-cap container without preservative	Liquid or semi-liquid stool	0.3 g	Collect stool specimen in a clean leak-proof plastic screw-cap container without preservative. Room temperature stability: Stable for 6 days. However, due to the sample type, it is not recommended to keep stool sample at room temperature.	Sterile leak-proof container	Frozen	Room temperature : See Collection Instructions, Refrigerated : 7 days, Frozen -20° C: 28 days Frozen -70° C: 5 months	Stool specimen collected in a container with fixative or preservative	Mon-Fri

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CAMPY EIA	87449	10 grams stool submitted in Cary-Blair stool culture transport medium	N/A	5 grams	N/A	Cary-Blair stool culture transport medium	Room temperature	Room temperature : 4 days, Refrigerated : Unacceptable, Frozen: Unacceptable	Unpreserved at any temperature • Stool specimens preserved in medium other than those listed • Stool specimens that have been previously concentrated • Specimens in diapers	Mon-Fri
CBC W/AUTO W/PLT	***85025	Whole blood from a full EDTA (lavender-top) tube	N/A	1 mL whole blood	Maintain specimen at room temperature. Do not refrigerate. If multiple draw, collect EDTA (lavender-top) tube last. Traumatic draw can introduce thromboplastin and trap WBC and platelets. Refrigeration can precipitate fibrin and trap WBC and platelets.	EDTA (lavender-top) tube	Room temperature	Room temperature : 48 hours, Refrigerated : 48 hours (may cause platelet clumping), Frozen: Unacceptable	Hemolysis • Clotted • Received frozen	Mon-Fri
CBC W/O DIFF W/O PLTS (Hemogram)	85014, 85018, 85041, 85048	Whole blood from a full EDTA (lavender-top) tube	N/A	1 mL whole blood	Maintain specimen at room temperature. If multiple draw, collect EDTA (lavender-top) tube last. Traumatic draw can introduce thromboplastin and trap WBC and platelets.	1 mL whole blood EDTA (lavender-top) tube	Room temperature (do not refrigerate)	Room temperature : 48 hours, Refrigerated : 48 hours (may cause platelet clumping), Frozen: Unacceptable	Hemolysis • Clotted • Received frozen	Mon-Fri
CBC W/O DIFF W/PLTS	***85027	Whole blood from a full EDTA (lavender-top) tube	N/A	1 mL whole blood	Maintain specimen at room temperature. Do not refrigerate. If multiple draw, collect EDTA (lavender-top) tube last. Traumatic draw can introduce thromboplastin and trap WBC and platelets. Refrigeration can precipitate fibrin and trap WBC and platelets.	EDTA (lavender-top) tube	Room temperature	Room temperature : 48 hours, Refrigerated : 48 hours (may cause platelet clumping), Frozen: Unacceptable	Hemolysis • Clotted • Received frozen	Mon-Fri

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CBC WITH PATH REVIEW (PERIPHERAL SMEAR)	***85025, 850	Whole blood from a full EDTA (lavender-top) tube	N/A	1 mL whole blood	Maintain specimen at room temperature. Do not refrigerate. If multiple draw, collect EDTA (lavender-top) tube last. Traumatic draw can introduce thromboplastin and trap WBC and platelets. Refrigeration can precipitate fibrin and trap WBC and platelets	EDTA (lavender-top) tube	Room temperature	Room temperature : 48 hours, Refrigerated : 48 hours (may cause platelet clumping), Frozen: Unacceptable	Gross hemolysis • Clotted • Quantity not sufficient • Age of specimen	Mon-Fri
Clostridium difficile Toxin/GDH with Reflex to PCR	87449, 87324	5 grams or 5 mL unformed stool	N/A	1 gram or 1 mL	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 5 grams or 5 mL of the stool specimen from the plastic lined diaper to the sterile container. Do not submit the diaper itself. Cap securely. Do not use any preservative, media or additive.	Clean plastic screw-cap, leak-proof container	Frozen	Room temperature : Unacceptable, Refrigerated : 72 hours, Frozen: 30 days	Formed stool • Stool submitted in transport media or swab • Rectal swab • Unfrozen stool >72 hours old • Received room temperature	Mon-Fri
CEA	***82378	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	N/A	Mon-Fri

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CHLORIDE, 24 HOUR URINE WITHOUT CREATINE	82436	10 mL aliquot of a 24-hour urine collected in a no preservative plastic urine container	Urine preserved with boric acid • Urine preserved with acetic acid • Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Record total volume and collection time on specimen container and test requisition	Plastic urine container	Room temperature	Room temperature : 14 days, Refrigerated : 14 days, Frozen: 60 days	Urine preserved with HCl	Mon-Fri
CHLORIDE, RANDOM URINE WITHOUT CREATINE	82436	10 mL random urine collected in a no preservative plastic urine container	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	N/A	Plastic urine container	Room temperature	Room temperature : 14 days, Refrigerated : 14 days, Frozen: 60 days	N/A	Mon-Fri
CHOLESTEROL	***82465	1 mL serum	Plasma collected in: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Serum: Room temperature : 7 days, Refrigerated : 7 days, Frozen: 90 days, Plasma: Room temperature : 48 hours, Refrigerated : 48 hours, Frozen: 6 months	Gross hemolysis • Anticoagulants other than heparin • Moderate to gross icterus	Mon-Fri
CHLORIDE	82435	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Serum and plasma: Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	Anticoagulants other than heparin	Mon-Fri
CK (CREATININE KINASE)	82550	1 mL serum	Plasma collected in: Sodium heparin (green-top) or lithium heparin (green-top) tube	Plasma collected	If CK and CK Isoenzymes are ordered together, specimen must be submitted frozen	Serum Separator Tube (SST®)	Room temperature	Serum and plasma: Room temperature : 72 hours, Refrigerated : 7 days, Frozen: 28 days	Gross hemolysis • Anticoagulants other than heparin	Mon-Fri

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CMP	80053	1 mL serum	Spun SST® tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 72 hours, Refrigerated : 72 hours, Frozen: Unacceptable	See individual tests	Mon-Fri
CMV Iff	86644	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 4 days, Refrigerated : 7 days, Frozen: 30 days	Gross hemolysis • Grossly lipemic • Grossly icteric	Mon-Fri
CMV IgM	86645	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 4 days, Refrigerated : 7 days, Frozen: 30 days	Gross hemolysis • Grossly lipemic • Grossly icteric	Mon-Fri
CO2	82374	1 full unopened spun gel barrier tube	Plasma collected in: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	0.5 mL	Do not open tube	1 full unopened spun gel barrier tube	Room temperature	Room temperature : 72 hours, Refrigerated : 72 hours, Frozen: 31 days	Anticoagulants other than heparin • Red-top tube (no gel)	Mon-Fri
Complement Component C3c and C4c	86160 (x2)	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Refrigerated (cold packs)	Room temperature : Unacceptable, Refrigerated : 4 days, Frozen: 21 days	N/A	Mon-Fri
CORTISOL TOTAL	82533	1 mL serum	N/A	0.5 mL	Note: Assay not recommended when patient is receiving prednisone/prednisolone therapy due to cross reactivity with the antibody used in this assay.	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	N/A	Mon-Fri

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CORTISOL AM	82533	1 mL serum	N/A	0.5 mL	Collect specimen between 7-9 a. m. Indicate the collection time on the specimen container and test requisition. Note: Assay is not recommended when patient is receiving prednisone/pre dnisolone therapy due to cross reactivity with the antibody used in this assay	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	N/A	Mon-Fri
CORTISOL PM	82533	1 mL serum	N/A	0.5 mL	Collect specimen between 3-5 p. m. Indicate collection time on specimen container and test requisition. Note: Assay is not recommended when patient is receiving prednisone/pre dnisolone therapy due to cross reactivity with the antibody used in this assay	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	N/A	Mon-Fri
CREATININE, SERUM	82565	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	Grossly icteric • Anticoagulants other than heparin	Mon-Fri

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CRP	86140	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 30 days, Frozen: 1 year	N/A	Mon-Fri
CRP, HS	***86141	1 mL serum	Plasma collected in: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 90 days	N/A	Mon-Fri
Culture, Aerobic and Anaerobic	87070, 87075, 87205	3 mL or 3 grams abscess, deep wound, tissue, normally sterile body fluids other than blood, bronchoscopic specimens obtained by the Double Lumen Brush technique, suprapubic urine aspirates obtained from bladder, nephrostomy tube or suprapubic catheterization, aspirated pus from deep wound or abscess or tympanocentesis fluid, genital specimens from these sites only: cul-de-sac aspiration, culdocentesis, percutaneous transfundal aspiration, fallopian tube, surgical specimens, exudates collected in an Anaerobic transport gel vial for fluid and tissue specimens or Anaerobic transport swab with Amies gel (blue-cap) or ESwab (white-cap)	(2 swabs) abscess or deep wound, normally sterile body fluids other than blood, bronchoscopic specimens obtained by the Double Lumen Brush technique, suprapubic urine aspirates obtained from bladder, nephrostomy tube or suprapubic catheterization, aspirated pus from deep wound or abscess or tympanocentesis fluid, genital specimens from these sites only: Cul-de-sac aspiration, culdocentesis-percutaneous transfundal aspiration, fallopian tube, surgical specimens, exudates collected in Amies gel (blue-cap) or ESwab (white-cap)	1 mL or 1 gram	Tissues and fluids are superior to a swab specimen. If swabs must be used, collect 2 anaerobic transport swabs, one for culture and one for gram stain or submit one anaerobic transport swab with one air dried smear or one ESwab (white-cap) for both culture and gram stain. Specimens not listed as acceptable may be processed for anaerobic culture only after consultation with a Microbiology Scientific Director. Do not submit syringe with needle attached. If submitting syringe, remove needle, expel air and cap syringe. Purulent sterile body fluids not submitted in an anaerobic transport tube may be accepted for culture if received within 8 hours of collection.	Transport device(s) appropriate for aerobic and anaerobic culture, such as Anaerobic Transport Media or swab in Amies gel medium	Room temperature	ESwab or Amies gel swab: Room temperature : 48 hours, Refrigerated : 48 hours, Frozen: Unacceptable, Anaerobic Transport Media: Room temperature : 72 hours, Refrigerated : 72 hours, Frozen: Unacceptable	Specimens not in an anaerobic transport medium • Expired transport media • Throat specimens • Nasopharyngeal specimens • Sputum or bronchoscopic specimens • Specimens not collected by Double Lumen Brush technique • Stool and rectal swabs • Urine-voided or catheter • Vaginal and cervical • Specimens from sites contaminated with intestinal contents • Superficial or fresh wounds • External ear • External eye • Intrauterine device • Tracheal aspirates	Mon-Fri

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D-Dimer	85379	One full unopened 3.2% sodium citrate (light blue-top) tube	1 mL frozen plasma: Centrifuge specimen for 15 minutes at 2500-3500 rpm. Using a plastic pipette, remove plasma, taking care to avoid the WBC/Platelet (buffy) layer and place into a plastic transport tube and freeze at -20° C. Ship on dry ice.	0.5 mL plasma	A completely filled tube is necessary because the correct ratio of blood to citrate is critical (9:1). Mix by gentle inversion 3-4 times. Do not uncap.	3.2% sodium citrate (light blue-top) tube	Room temperature	Unopened light blue-top tube: Room temperature : 72 hours, Refrigerated : 24 hours, Frozen: Unacceptable, Separated platelet-poor plasma: Room temperature : Unacceptable, Refrigerated : Unacceptable, Frozen: 30 days	Gross hemolysis • Grossly lipemic • Clotted specimen • Improper blood to citrate ratio • Plasma received room temperature • Plasma received refrigerated	Mon-Fri
DHEA-SULFATE	82627	1 mL serum	N/A	1 mL serum	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 14 days, Refrigerated : 14 days, Frozen: 28 days	N/A	Mon-Fri
DIGOXIN	***80162	1 mL serum collected in a red-top tube (no gel)	Plasma collected in: Sodium heparin (green-top) tube, lithium heparin (green-top) tube, EDTA (lavender-top) tube, or fluoride (gray-top) tube	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 5 days, Refrigerated : 10 days, Frozen: 30 days	Collected in Serum Separator Tube (SST®)	Mon-Fri
DIRECT HDL	***83721	1 mL serum	Plasma collected in: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 6 days, Refrigerated : 7 days, Frozen: 31 days	Anticoagulants other than heparin	Mon-Fri

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EBV AB PANEL (EBV IgG, IgM, EBNA)	86664, 86665	1 mL serum	N/A	0.8 mL	N/A	Transport tube	Room temperature	Room temperature : 4 days, Refrigerated : 7 days, Frozen: 30 days	N/A	Mon-Fri
Elastase-1	83520	1 g stool	N/A	0.3 g	Collect undiluted feces in clean, dry, sterile leak-proof container. Do not add fixative or preservative.	Transport tube	Refrigerated (cold packs)	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 1 year	Specimens collected in formalin, MF, SAF or PVA • Cary-Blair media	Mon-Fri
ESR	85652	Whole blood: Full EDTA (lavender-top) tube	N/A	2 mL	Maintain specimen at room temperature. If multiple tests are ordered, please submit a separate tube for this test.	EDTA (lavender-top) tube	Room temperature	Room temperature : 24 hours, Refrigerated : 24 hours	Hemolysis • Samples >24 hours old • Clotted	Mon-Fri
Estradiol	82670	1 mL serum	N/A	0.5mL		Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 6 months, *Do not add estradiol testing to a barrier gel specimen older than 72 hours	Serum stored on barrier gel for more than 72 hours	Mon-Fri
ESTRIOL	82677	0.5 mL serum collected in a red-top tube (no-gel)	N/A	0.3 mL	N/A	Transport tube	Refrigerated (cold packs)	Room temperature : 48 hours, Refrigerated : 7 days, Frozen: 28 days	Gross hemolysis • Serum separator tube (SST) • Received room temperature	Mon-Fri
ESTRONE	82679	0.5 mL serum collected in a red-top tube (no-gel)	N/A	0.25 mL		Transport tube	Refrigerated (cold packs)	Room temperature : 5 days, Refrigerated : 7 days, Frozen: 28 days	Gross hemolysis • Serum separator tube (SST) • Received room temperature	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
FE/TIBC	***83540, ***8	1 mL serum	Plasma collected in: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	0.5mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 6 days, Refrigerated : 7 days, Frozen: 28 days	Hemolysis • Anticoagulants other than heparin	Mon-Fri
FERRITIN	***82728	1 mL serum	N/A	0.5mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	Gross hemolysis • Plasma	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
FOLATE	***82746	1 mL serum	Amber vial	0.5mL	Dietary supplements containing biotin may interfere in assays and may skew analyte results to be either falsely high or falsely low. For patients receiving the recommended daily doses of biotin, draw samples at least 8 hours following the last biotin supplementation. For patients on mega-doses of biotin supplements, draw samples at least 72 hours following the last biotin supplementation. Note: If transport to performing laboratory will exceed 24 hours please transport refrigerated (cold packs)	Serum Separator Tube (SST®)	Room temperature	Room temperature : 36 Hours, Refrigerated : 7 days, Frozen: 30 days	Hemolysis	Mon-Fri
FSH	83001	1 mL serum	N/A	0.5mL	Note: For pre-pubertal children, test code 36087 FSH, Pediatrics assay is recommended	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	N/A	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
FT3	84481	1 mL serum	N/A	0.5mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	N/A	Mon-Fri
FT4	***84439	1 mL serum	N/A	0.5mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	N/A	Mon-Fri
GIARDIA		10 grams or 10 mL stool preserved in 10% formalin or Total-Fix® transport vial	Cary-Blair medium • Fresh unpreserved stool	5 grams or 5 mL	Transfer stool within 30 minutes of collection into formalin or Total-Fix® vial. Fill to line on transport vial. Mix contents thoroughly until homogenous.	10% formalin or Total-Fix® transport vial	Preserved: Room temperature, Cary-Blair or fresh: Refrigerated (cold packs)	Preserved: Room temperature : 60 days, Refrigerated : 60 days, Frozen: Unacceptable, Cary-Blair: Room temperature : Unacceptable, Refrigerated : 7 days, Frozen: 7 days, Fresh: Room temperature : Unacceptable, Refrigerated : 48 hours, Frozen: 1 year	Specimens other than stool in 10% formalin, Total-Fix®, SAF, Cary-Blair or fresh unpreserved stool	Mon-Fri
GLUCOSE	***82947	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 4 days, Refrigerated : 7 days, Frozen: 28 days	Unspun serum separator tube (SST®)	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
GUIAC	***82274 (HCPCS: G0328)	Fecal specimen collected from toilet water and brushed on the InSure® FOBT test card	N/A	N/A	See collection instructions included in InSure® test kit. One InSure® FOBT test card with specimen applied to both windows.	InSure® FOBT test card	Room temperature	Room temperature : 14 days, Refrigerated : Unacceptable, Frozen: Unacceptable	Stool submitted in any container • InSure® FOBT cards with stool applied to the sample windows • Any test card with obvious blood present • Received refrigerated • Received frozen	Mon-Fri
H Pylor IgG	86677	1mL Serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 14 days Refrigerated : 14 days Frozen: 14 days	Non-serum samples, grossly hemolyzed, icteric or lipemic,	Mon-Fri
H PYLORI STOOL ANTIGEN	87338	0.5 mL or 0.5 grams of semi-solid stool or 20 mm diameter solid stool	N/A	0.5 mL	Collect 0.5 mL or 0.5 grams of semi-solid stool or 20 mm diameter solid stool and transfer to properly labeled plastic, leak-proof container. Do not place stool in preservative, transport media or swab. Watery, diarrheal stool is not acceptable.	Plastic leak-proof container	FROZEN	Room temperature : Unacceptable Refrigerated : 72 hours Frozen: 30 days	Watery, diarrheal stool • Stool in preservative, transport media or swab	Mon-Fri
H&H	***85014, ***8	Whole blood from a full EDTA (lavender-top) tube	Microtainer 0.5 mL • EDTA (lavender-top) tube: 1 mL	N/A	Maintain specimen at room temperature. Do not refrigerate. If multiple draw, collect EDTA (lavender-top) tube last. Traumatic draw can introduce thromboplastin and trap WBC and platelets. Refrigeration can precipitate fibrin and trap WBC and platelets.	EDTA (lavender-top) tube	Room temperature	Room temperature : 48 hours, Refrigerated : 48 hours, Frozen: Unacceptable	Hemolysis • Clotted • Received frozen	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
HAV IgM	***86709	1 mL serum	Plasma collected in: EDTA (lavender-top) tube	0.5 mL	Dietary supplements containing biotin may interfere in assays and may skew analyte results to be either falsely high or falsely low. For patients receiving the recommended daily doses of biotin, draw samples at least 8 hours following the last biotin supplementation. For patients on mega-doses of biotin supplements, draw samples at least 72 hours following the last biotin supplementation.	SST	Room Temperature	Room temperature : 14 days Refrigerated : 14 days Frozen: 30 days	Gross hemolysis • Grossly lipemic	Mon-Fri
HBsAg REFLEX Confirm	***87340	2 mL serum	Plasma collected in: EDTA (lavender-top) tube	1 mL	Note: When only a single test, Hepatitis B Surface Antigen, is ordered to diagnose Hepatitis B in a pregnant woman, additional tests such as liver enzymes should be ordered to confirm the diagnosis.	SST	Room Temperature	Room temperature : 14 days Refrigerated : 14 days Frozen: 30 days	Gross hemolysis • Grossly lipemic	Mon-Fri
HCG (TOTAL QUANT)	***84702	1 mL serum	n/a	0.3 mL	n/a	SST	Room Temperature	Room temperature : 14 days Refrigerated : 14 days Frozen: 28 days	N/A	Mon-Fri
HCT	***85014	Whole blood from a full EDTA (lavender-top) tube	N/A	Microtainer: 0.5	Maintain specimen at room temperature. Do not refrigerate. If multiple draw, collect EDTA (lavender-top) tube last. Traumatic draw can introduce thromboplastin and trap WBC and platelets. Refrigeration can precipitate fibrin and trap WBC and platelets.	EDTA (lavender-top) tube	Room Temperature	Room temperature : 48 hours Refrigerated : 48 hours (may cause platelet clumping) Frozen: Unstable	Hemolysis • Clotted • Received frozen	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
HCV	87522	3 mL plasma collected and separated from an EDTA (lavender-top) tube	Plasma collected in: PPT potassium EDTA (white-top) tube • Serum	1 mL	Do not freeze whole blood or any samples stored in primary tube. Freshly drawn specimens (whole blood) may be stored at 2-25°C for up to 24 hours prior to centrifugation. Separate plasma or serum from cells within 24 hours of collection by centrifugation. Follow manufacturer's instructions for collection tube handling.	Transport tube	Refrigerated	Room temperature : 72 hours Refrigerated : 14 days Frozen: 84 days	Whole blood samples >24 hours old • Frozen whole blood	Mon-Fri
Heb B Core Antibody	86705	1 mL serum	Plasma collected in: EDTA (lavender-top) tube	0.5 mL	Dietary supplements containing biotin may interfere in assays and may skew analyte results to be either falsely high or falsely low. For patients receiving the recommended daily doses of biotin, draw samples at least 8 hours following the last biotin supplementation. For patients on mega-doses of biotin supplements, draw samples at least 72 hours following the last biotin supplementation.	SST	Room Temperature	Room temperature : 5 days Refrigerated : 14 days Frozen: 21 days	Gross hemolysis • Grossly lipemic	Mon-Fri
Hep B Surface antigen w/reflex confirmation	***87340	2 mL serum	Plasma collected in: EDTA (lavender-top) tube	1 mL	Note: When only a single test, Hepatitis B Surface Antigen, is ordered to diagnose Hepatitis B in a pregnant woman, additional tests such as liver enzymes should be ordered to confirm the diagnosis.	SST	Room Temperature	Room temperature : 7 days Refrigerated : 14 days Frozen: 30 days	Gross hemolysis • Grossly lipemic	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
HEPATIC PANEL (LFT) (Total Protein, Albumin, Globulin (calculated), Albumin/Globulin Ratio (calculated), Total Bilirubin, Direct Bilirubin, Indirect Bilirubin (calculated), Alkaline Phosphatase, AST, ALT)	80076	1 mL serum	N/A	0.5 mL	n/a	SST	Room Temperature	Room temperature : 24 hours Refrigerated : 72 hours Frozen: Unacceptable	Hemolysis • Received frozen	Mon-Fri
HGB	***85018	Whole blood from a full EDTA (lavender-top) tube	Microtainer: 0.5 mL • EDTA (lavender-top) tube: 1 mL	N/A	Maintain specimen at room temperature. Do not refrigerate. If multiple draw, collect EDTA (lavender-top) tube last. Traumatic draw can introduce thromboplastin and trap WBC and platelets. Refrigeration can precipitate fibrin and trap WBC and platelets.	EDTA (lavender-top) tube	Room temperature	Room temperature : 48 hours Refrigerated : 48 hours (may cause platelet clumping) Frozen: Unacceptable	Hemolysis • Clotted • Received frozen	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
HIV (HIV-1/2 Antigen and Antibodies, Fourth Generation, with Reflexes)	87389	3 mL serum	Serum collected in: Red-top tube (no gel) • Plasma collected in: EDTA (lavender-top) tube	2 mL	<p>Serum: Submit 1 dedicated serum separator tube (SST®) or red-top tube (no gel). The tube should be centrifuged after clotting and remain unopened.</p> <p>Plasma: Collect in an EDTA (lavender-top) tube and centrifuge tube within 24 hours of collection. Transfer plasma to a plastic screw-cap vial, label as plasma, and submit for testing.</p> <p>Submitted tubes must be labeled with patient identifier and submitted only for HIV testing.</p>	Serum Separator Tube (SST®)	Room temperature	<p>Room temperature : 72 hours</p> <p>Refrigerated : 5 days</p> <p>Frozen: 30 days</p>	N/A	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
HOMOCYSTEINE	***83090	1 mL serum	Plasma collected in: Sodium heparin (green-top) tube or EDTA (lavender-top) tube	0.5 mL	<p>Red-top tubes: Place the specimen in a refrigerator or ice bath for 30 minutes after collection. Centrifuge the specimen as soon as possible after complete clot formation has taken place. Transfer the serum to a plastic screw-cap vial., Barrier gel separator</p> <p>tubes: Place the specimen in a refrigerator for 30 minutes after collection. Centrifuge the specimen as soon as possible after complete clot formation has taken place. Do not place barrier tubes in an ice bath as freezing may prevent the barrier gel from adequately separating serum from cells., EDTA or heparin tubes: Place the specimen in a refrigerator or ice bath until the specimen can be centrifuged. Centrifuge the specimen as soon as possible and transfer the plasma to a plastic screw-cap vial.</p>	Transport tube	Room temperature	<p>Room temperature : 4 days</p> <p>Refrigerated : 14 days</p> <p>Frozen: 6 months</p>	Gross hemolysis • Grossly lipemic • Unseparated serum or plasma • Whole blood specimens	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
HSV-1	86695	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 7 days Refrigerated : 14 days Frozen: 30 days	Gross hemolysis • Grossly lipemic • Plasma	Mon-Fri
HSV-2	86696	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 7 days Refrigerated : 14 days Frozen: 30 days	Gross hemolysis • Grossly lipemic • Plasma	Mon-Fri
IGF-1 Insulin Growth Factor	83520	0.5 mL serum	N/A	0.3 mL	Collect blood in a red-top tube (no gel) or Serum Separator Tube (SST®). For red-top tube (no gel), allow blood to clot (10-15 minutes) at room temperature. Separate serum from cells and refrigerate.	Transport tube	Refrigerated (cold packs)	Room temperature : 48 hours Refrigerated : 7 days Frozen: 60 days	Moderate hemolysis • Grossly lipemic • Received in glass tube • Received room temperature • Grossly icteric	Mon-Fri
IGF-BP3	83520	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 7 days Refrigerated : 14 days Frozen: 1 year	Gross hemolysis • Grossly lipemic	Mon-Fri
Immunoglobulins Panel, Serum IgG IgA IgM	82784 (x3)	2 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 72 hours Refrigerated : 7 days Frozen: 90 days	Gross hemolysis • Grossly lipemic • Grossly icteric	Mon-Fri
INSULIN	83525	1 mL serum	N/A	0.5 mL	Unable to add INSULIN testing unless sample was submitted frozen	Transport tube	Refrigerated (cold packs)	Room temperature : 8 hours Refrigerated : 7 days Frozen: 28 days	Hemolysis • Plasma • Grossly icteric	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
IRON (FE)	***83540	1 mL serum	Plasma collected in: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 6 days Refrigerated : 7 days Frozen: 31 days	Hemolysis • Anticoagulants other than heparin	Mon-Fri
Lactate Dehydrogenase (LD)	83615	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	Do not refrigerate or freeze	Serum Separator Tube (SST®)	Room temperature	Serum Room temperature : 14 days Refrigerated : 48 hours Frozen: Unacceptable Plasma Room temperature : 14 days Refrigerated : Unacceptable Frozen: Unacceptable	Hemolysis • Received frozen • Anticoagulants other than heparin	Mon-Fri
Leviteracetam/Keppra	80177	1 mL serum collected in a red-top tube (no gel)	Plasma collected in: EDTA (lavender-top) tube, EDTA (royal blue-top) tube, sodium heparin (green-top) tube, or 3.2% sodium citrate (light blue-top) tube	0.5 mL	Collect in red-top tube (no gel). Avoid use of Serum Separator Tube (SST®) as the drug may be adsorbed into the gel.	Transport tube	Room temperature	Room temperature : 14 days Refrigerated : 28 days Frozen: 60 days	Gross hemolysis • Serum Separator Tube (SST®)	Mon-Fri
LH	83002	1 mL serum	N/A	0.5 mL	Note: For pre-pubertal children, test code 36086 LH, Pediatrics assay is recommended	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days Refrigerated : 7 days Frozen: 28 days Setup Schedule	N/A	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
LIPASE	83690	1 mL serum	N/A	0.5 mL	Note: N-acetyl-p-benzoquinone imine (NAPQI) (metabolite of acetaminophen) will generate erroneously low results in samples for patients that have taken toxic doses of acetaminophen.	Serum Separator Tube (SST®)	Room temperature	Room temperature : 8 days Refrigerated : 8 days Frozen: 31 days	Grossly icteric	Mon-Fri
LIPID PANEL W/REFLEX DIRECT LDL (Cholesterol, Total, Triglycerides, HDL Cholesterol, LDL-Cholesterol (calculated) Cholesterol/HDL Ratio (calculated), Non-HDL Cholesterol (calculated), If Triglyceride result is >400 mg/dL, then Direct LDL will be performed at an additional charge (CPT code(s): 83721).)	***80061	1 mL serum	Plasma collected in: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	0.5 mL	Centrifuge within 30-60 minutes following collection	Serum Separator Tube (SST®)	Room temperature	Serum Room temperature : 48 hours Refrigerated : 7 days Frozen: 28 days Plasma Room temperature : 48 hours Refrigerated : 48 hours Frozen: 28 days	Gross hemolysis • Moderate to gross icterus • Anticoagulants other than heparin	Mon-Fri
Lipid Panel Standard ((Cholesterol, Total, Triglycerides, HDL Cholesterol, LDL-Cholesterol (calculated) Cholesterol/HDL Ratio (calculated), Non-HDL Cholesterol (calculated))	***80061	1 mL serum	Plasma collected in: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	0.5 mL	Centrifuge within 30-60 minutes following collection	Serum Separator Tube (SST®)	Room temperature	Serum Room temperature : 48 hours Refrigerated : 7 days Frozen: 28 days Plasma Room temperature : 48 hours Refrigerated : 48 hours Frozen: 28 days	Gross hemolysis • Moderate to gross icterus • Anticoagulants other than heparin	Mon-Fri
Lithium	80178	2 mL serum	Serum separator (gel barrier) tubes • EDTA plasma • No lithium containing anticoagulants	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 10 days Refrigerated : 10 days Frozen: Not established	Plasma from lithium-based anticoagulants	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
MAGNESIUM	83735	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Serum and plasma Room temperature : 7 days Refrigerated : 7 days Frozen: 28 days	Gross hemolysis • Anticoagulants other than heparin	Mon-Fri
MAGNESIUM, 24 HOUR URINE	83735	10 mL urine - See Instructions	N/A	1 mL	Please submit a 10 mL aliquot of a 24-hour collection. Collect urine with 25 mL of 6N HCL to maintain a pH below 3. Do not include first morning specimen; collect all subsequent voidings. The last sample collected should be the first morning specimen voided the following morning at the same time as the previous morning's first voiding. Record 24-hour urine volume on test requisition and urine vial.	Sterile screw-cap container	Room temperature	Room temperature : 4 days Refrigerated : 7 days Frozen: 90 days	N/A	Mon-Fri
Measles	86765	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 4 days Refrigerated : 7 days Frozen: 30 days	N/A	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
MICROALBUMIN, 24 HOUR URINE	82043	5 mL urine aliquot from a well mixed 24-hour urine collection - no preservative	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Specify 24-hour total volume on container and test requisition. Mix well if aliquoting, Note: Exercise within 24 hours, infection, fever, congestive heart failure, marked hyperglycemia, and marked hypertension may elevate urinary albumin excretion over baseline values.	Plastic urine container	Room temperature	Room temperature : 7 days Refrigerated : 14 days Frozen: 6 months	Acid preserved urine	Mon-Fri
Microalbumin, urine	82043	10 mL random urine - no preservative	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Mix well if aliquoting, Note: Exercise within 24 hours, infection, fever, congestive heart failure, marked hyperglycemia, and marked hypertension may elevate urinary albumin excretion over baseline values.	Plastic urine container	Room temperature	Room temperature : 7 days Refrigerated : 7 days Frozen: 28 days	Acid preserved urine	Mon-Fri
MICROALBUMIN/CREATININE RATIO	82043, 82570	10 mL random urine - no preservative	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Mix well if aliquoting, Note: Exercise within 24 hours, infection, fever, congestive heart failure, marked hyperglycemia, and marked hypertension may elevate urinary albumin excretion over baseline values.	Plastic urine container	Room temperature	Room temperature : 7 days Refrigerated : 7 days Frozen: 28 days	Acid preserved urine	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
Mumps	86735	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 4 days Refrigerated : 7 days Frozen: 30 days	N/A	Mon-Fri
O&P	87177, 87209	10 grams or 10 mL fresh stool preserved in 10% formalin and polyvinyl alcohol transport or single Total-Fix® transport vial	Para-Pak SVT transport vial • 25 mL urine in a sterile screw-cap container • 10 mL sputum in a sterile screw-cap container or with 10% formalin	5 grams or 5 mL stool	Stool: Place fresh stool in 10% formalin transport vial, as well as PVA transport medium or single Total-Fix® vial, within 30 minutes of collection. Add stool to bring the liquid level to the "fill to here" line on the vial. Mix well. Send specimen(s) at room temperature in the same shipping container. If parasite infestation is strongly suspected, collect at least 3 stool specimens every other day, since a single specimen can be negative. If Giardia is strongly suspected, please see Giardia Antigen, EIA, Stool (Test Code 8625).	10% formalin and polyvinyl alcohol transport or single Total-Fix® transport vial	Stool, (preserved): Room temperature	Stool (preserved) Room temperature : 6 months Refrigerated : 6 months Frozen: Unacceptable	Unpreserved stool • Specimens containing barium • Stool preserved in medium other than parasitology fixative • Received frozen • Stool submitted in expired transport vial	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
Osmolality, Serum	83930	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 4 days Refrigerated : 5 days Frozen: 14 days	Gross hemolysis • Grossly lipemic • Grossly icteric • Heparinized plasma	Mon-Fri
Osmolality, Urine	83935	2 mL random urine	N/A	0.5 mL	N/A	Plastic urine container	Room temperature	Room temperature : 4 days Refrigerated : 7 days Frozen: 30 days	Preserved urine	Mon-Fri
P:C W/ RATIO (Protein, Total, Random Urine with Creatinine)	*82570,84156	10 mL urine from a well-mixed random collection - no preservative	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	N/A	Plastic urine container	Room temperature	Room temperature : 4 days Refrigerated : 5 days Frozen: 30 days	Acidified urine	Mon-Fri
PHOSPHOROUS (Same as Phosphate)	84100	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 72 hours, Refrigerated : 7 days, Frozen: 28 days	Gross hemolysis • Plasma	Mon-Fri
PHOSPHORUS,(Same as Phosphate) 24 HOUR URINE	84105	10 mL urine aliquot from a well-mixed, 24-hour urine collection	Aliquot from a well-mixed unpreserved 24-hour collection (keep refrigerated during and after collection) • Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Refrigerate during and after collection. Collect urine with 25 mL of 6N HCl to maintain a pH <3. Do not include first morning specimen; collect all subsequent voidings. The last sample collected should be the first morning specimen voided the following morning at the same time as the previous morning's first voiding. Specify 24-hour total volume and collection duration on container and test requisition.	Plastic urine container	Preserved: Room temperature Unpreserved: Refrigerated (cold packs)	Preserved Room temperature : 6 months Refrigerated : 6 months Frozen: 6 months Unpreserved Room temperature : 48 hours Refrigerated : 7 days Frozen: 28 days	N/A	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
PHOSPHORUS,(Same as Phosphate) RANDOM URINE	84105	10 mL random urine	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Adjust pH to <3.0 with 6N HCl prior to aliquoting for phosphate testing	Plastic urine container	Preserved: Room temperature Unpreserved: Refrigerated (cold packs)	Preserved Room temperature : 6 months Refrigerated : 6 months Frozen: 6 months Unpreserved Room temperature : 48 hours Refrigerated : 7 days Frozen: 28 days	N/A	Mon-Fri
POTASSIUM	84132	1 mL serum	N/A	0.5 mL	Separate from cells as soon as possible after clotting	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 hours, Refrigerated : 7 days, Frozen: 28 days	Hemolysis	Mon-Fri
Potassium, 24-Hour Urine without Creatinine	84133	10 mL aliquot of a 24-hour urine collected in a no preservative plastic urine container	Urine preserved with boric acid • Urine preserved with acetic acid • Urine preserved with HCl • Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Record total volume and collection duration on specimen container and test requisition	Plastic urine container	Room temperature	Room temperature : 14 days, Refrigerated : 14 days, Frozen: 60 days	N/A	Mon-Fri
Potassium, Random Urine with Creatinine	82570, 84133	10 mL random urine collected in a no preservative plastic urine container	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	N/A	Plastic urine container	Room temperature	Room temperature : 14 days, Refrigerated : 14 days, Frozen: 60 days	N/A	Mon-Fri
Potassium, Random Urine without Creatinine	84133	10 mL random urine collected in a no preservative plastic urine container	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	N/A	Plastic urine container	Room temperature	Room temperature : 14 days, Refrigerated : 14 days, Frozen: 60 days	N/A	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
PREALBUMIN	84134	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 hours, Refrigerated : 14 days, Frozen: 4 months	Gross hemolysis • Grossly lipemic	Mon-Fri
PROCALCITONIN	84145	2 mL frozen serum	Plasma collected in: EDTA (lavender-top) tube, sodium heparin (green-top) tube, or lithium heparin (green-top) tube	0.5 mL	Allow blood (red-top) to fully coagulate at room temperature. Within 1 hour of collection, centrifuge serum at 2000 rpm for 10 minutes. Immediately transfer serum into a clean plastic screw-capped vial and freeze at or below -20° C. Samples must be kept frozen until testing.	Transport tube	Frozen	Room temperature : Unacceptable, Refrigerated : Unacceptable, Frozen: 28 days	Received room temperature • Received refrigerated	Mon-Fri
Progesterone	84144	1 mL serum	N/A	0.5 mL		Serum Separator Tube (SST®)	Room temperature	Room temperature : 72 hours, Refrigerated : 7 days, Frozen: 28 days	Serum stored on barrier gel for more than 72 hours	Mon-Fri
Prolactin	84146	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 5 days, Refrigerated : 7 days, Frozen: 28 days	N/A	Mon-Fri
PROTEIN, TOTAL	84155	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	Gross hemolysis • Plasma	Mon-Fri
Protein, Total, 12-Hour Urine with Creatinine	8,415,682,570	10 mL urine aliquot from a well-mixed, 24-hour collection - no preservative	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	Urinalysis trans	Record total volume and duration of collection on test requisition and urine vial	Plastic urine container	Room temperature	Room temperature : 4 days, Refrigerated : 5 days, Frozen: 30 days	Acidified urine	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
Protein, Total, 24-Hour Urine without Creatinine	84156	10 mL urine aliquot from a well-mixed, 24-hour collection - no preservative	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	Urinalysis trans	Record total volume and duration of collection on test requisition and urine vial	Plastic urine container	Room temperature	Room temperature : 4 days, Refrigerated : 5 days, Frozen: 30 days	Acidified urine	Mon-Fri
PSA, Free and Total	***84153, 841	2 mL frozen serum	N/A	0.6 mL	Do not collect specimen after a transrectal biopsy, results may be falsely elevated	Transport tube	Frozen • Room temperature acceptable if received within 72 hours	Room temperature : 72 hours, Refrigerated : 72 hours, Frozen: 5 months	N/A	Mon-Fri
PSA, Total with Reflex to PSA, Free	***84153	2 mL frozen serum	N/A	0.6 mL	Do not collect specimen after a transrectal biopsy, results may be falsely elevated	Transport tube	Frozen • Room temperature acceptable if received within 72 hours	Room temperature : 72 hours, Refrigerated : 72 hours, Frozen: 5 months	N/A	Mon-Fri
PSA***	***84153	1 mL serum	N/A	0.5mL	Do not collect specimen after a transrectal biopsy, results may be falsely elevated	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days Refrigerated : 14 days Frozen: 1 year	N/A	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
PT/INR	***85610	One full unopened 3.2% sodium citrate (light blue-top) tube	1 mL frozen plasma: If the specimen will be delayed longer than 48 hours, centrifuge specimen for 15 minutes at 2500-3500 rpm. Using a plastic pipette, remove plasma, taking care to avoid the WBC/platelet (buffy) layer and place into a transport tube and freeze at -20° C. Ship on dry ice.	Ratio of blood to citrate is critical. Submit difficult draws in pediatric (light blue-top) tube 0.5 mL frozen plasma	A completely filled tube is necessary because the correct ratio of blood to citrate is critical (9:1). Mix by gentle inversion 3-4 times. Do not uncap.	3.2% sodium citrate (light blue-top) tube	Room temperature	Unopened light blue-top tube Room temperature : 48 hours Refrigerated : Unacceptable Frozen: Unacceptable Separated platelet-poor plasma Room temperature : Unacceptable Refrigerated : Unacceptable Frozen: 14 days	Gross hemolysis • Grossly lipemic • Improper blood to citrate ratio • High hematocrit • Improper blood collection	Mon-Fri
PTH	83970	1.5 mL whole blood collected in EDTA (lavender-top) tube	2 mL frozen serum	1 mL	Whole Blood Refrigerated	EDTA (lavender-top) tube	Refrigerated (cold packs)	Room temperature : 48 hours, Refrigerated : 72 hours, Frozen: 6 months	Gross hemolysis • Plasma in sodium heparin (green-top) tube • Plasma in lithium heparin (green-top) tube	Mon-Fri
QuantIFERON®-TB Gold Plus, 1 Tube	86480	6 mL whole blood collected in a no gel lithium heparin (green-top) tube	N/A	6 mL	Collect a minimum of 6 mL of blood by venipuncture into a lithium heparin (green-top) tube. Gently mix by inverting the tube several times to dissolve the heparin. Refrigerate at 2-8° C.	Lithium heparin (green-top) tube	Refrigerated (cold packs)	Room temperature : Unacceptable, Refrigerate: 48 hours, Frozen: Unacceptable	Sodium heparin (green-top) tubes • Quantiferon®-TB Gold Plus, 4 tube collection kit • Incubated specimens • Gel barrier lithium heparin (green-top) tubes	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
RENAL PANEL	80069	1 mL serum	N/A	0.5mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 72 hours Refrigerated : 72 hours Frozen: 28 days	Moderate to gross hemolysis • Red-top tube (no gel) • Unspun and not separated from cells • Unspun serum separator tube	Mon-Fri
RENIN	84244	0.8 mL frozen plasma collected in an EDTA (lavender-top) tube	N/A	0.5 mL	N/A	Transport tube	Frozen	Room temperature : 24 hours, Refrigerated : 24 hours, Frozen: 28 days	Plasma collected in plasma separator tube	Mon-Fri
Rheumatoid Factor	86431	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 5 days, Refrigerated : 7 days, Frozen: 90 days	N/A	Mon-Fri
Rubella IgG	86762	1 mL serum	N/A	0.5 mL	N/A	Transport tube		Room temperature : 4 days, Refrigerated : 7 days, Frozen: 30 days	Gross hemolysis • Grossly lipemic	Mon-Fri
Rubella IgM	86762	1 mL serum	N/A	0.6 mL	N/A	Transport tube	Room temperature	Room temperature : 4 days, Refrigerated : 7 days, Frozen: 30 days	Gross hemolysis • Grossly lipemic	Mon-Fri
SARS IGG ANTIBODY	86769 (x2)	1 mL serum	N/A	1 mL serum	N/A	Transport tube	Room temperature	Room temperature : 4 days, Refrigerated : 7 days, Frozen: 30 days	Gross hemolysis • Grossly lipemic • Grossly icteric • Frozen Serum Separator Tube (SST®)	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
SD Idl Small, Dense LDL-cholesterol (sd LL-C)	83722	1 mL serum	N/A	0.2 mL	Fasting may be required for this test. Please ask your doctor if you should fast prior to testing. At least 3 mL of blood should be drawn.	Transport tube	Refrigerated (cold packs)	Room temperature : Unacceptable, Refrigerated : 5 days, Frozen -20° C: Unacceptable, Frozen -70° C: 5 days	N/A	Mon-Fri
SEX HORMONE BINDING GLOB	84270	0.7 mL serum	N/A	0.5 mL	N/A		Room temperature	Room temperature : 14 days, Refrigerated : 14 days, Frozen: 60 days	Plasma	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
SHIGA TOXIN EIA	87427	Stool collected in Cary-Blair stool culture transport medium	Rectal swab in Amies or Cary-Blair stool culture transport medium • Pure isolate on agar slant/tube/swab transport system • Pure isolate in GN broth collected in a sterile, leak-proof container	1 gram or 1 mL	Collect in clean, dry container and then transfer a minimum of 1 gram or 1 mL into a Cary-Blair stol culture transport medium. Fluid level should reach line on vial. Note: Frozen (-70 ° C) specimens are sub-optimal but can be tested directly without broth enhancement or reflex culture.	Cary-Blair stool culture transport medium	Room temperature Refrigerated (cold packs) also acceptable	Stool or swab in Cary-Blair Room temperature : 4 days Refrigerated : 4 days Frozen: Unacceptable Swab in Amies Room temperature : 48 hours Refrigerated : 48 hours Frozen: Unacceptable Cultures on agar slant/tube Room temperature : 7 days Refrigerated : 7 days Frozen: Unacceptable Cultures in GN broth Room temperature : Unacceptable Refrigerated : 7 days Frozen -20° C: Unacceptable Frozen -70° C: 30 days	Swabs not in Cary-Blair or Amies transport medium • Unpreserved raw stool at room temperature • Unpreserved raw refrigerated stool >2 hours old from time of collection • Frozen specimens in Cary-Blair transport medium • Specimens in Cary-Blair >4 days old • Frozen specimens that have been thawed and re-frozen • Dry swabs • Stool in diapers • Unlabeled specimens	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
Sjogren's Antibodies (SS-A, SS-B)	86235 (x2)	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 4 days, Refrigerated : 7 days, Frozen: 30 days	Gross hemolysis • Grossly lipemic • Grossly icteric	Mon-Fri
Sm/RNP Antibody	86235	1 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 4 days, Refrigerated : 7 days, Frozen: 30 days	Gross hemolysis • Grossly lipemic • Grossly icteric	Mon-Fri
SODIUM	84295	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Serum and plasma Room temperature : 7 days Refrigerated : 7 days Frozen: 28 days	Gross hemolysis • Anticoagulants other than heparin	Mon-Fri
SODIUM 24 HOUR URINE w/o Creatinine	84300	10 mL urine aliquot from 24-hour collection - no preservative	Urine preserved with boric acid • Urine preserved with acetic acid • Urine preserved with HCl • Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Record total volume and collection duration on specimen container and test requisition	Transport tube	Room temperature	Room temperature : 14 days, Refrigerated : 14 days, Frozen: 60 days	N/A	Mon-Fri
Sodium, Random Urine with Creatinine	82570, 84300	10 mL urine, random collection - no preservative	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	N/A	Transport tube	Room temperature	Room temperature : 7 days, Refrigerated : 7 days. Frozen: 28 days	N/A	Mon-Fri
Sodium, Random Urine without Creatinine	84300	10 mL random urine collected in a no preservative plastic urine container	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	N/A	Transport tube	Room temperature	Room temperature : 14 days, Refrigerated : 14 days, Frozen: 60 days	N/A	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
STOOL, C/S	87045, 87046, 87427	1 gram or 1 mL stool in Cary-Blair stool culture transport medium	Rectal swab in Amies or Cary-Blair stool culture transport medium	N/A	Collect in a clean, dry container and then transfer a minimum of 1 gram or 1 mL into a Cary-Blair stool culture transport medium. Fluid level should reach line on vial.	Cary-Blair transport vial or swab in Amies transport medium	Room temperature	Stool or swab in Cary-Blair Room temperature : 4 days Refrigerated : 4 days Frozen: Unacceptable Swab in Amies Room temperature : 48 hours Refrigerated : 48 hours Frozen: Unacceptable	Unpreserved specimen at any temperature • Frozen specimens in Cary-Blair stool culture transport medium • Expired transport medium • Specimen in diaper or parasitology transport vial	Mon-Fri
T3	84480	1 mL serum	N/A	0.3 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	N/A	Mon-Fri
T3 UPTAKE	***84479	1 mL serum	Plasma collected in: Sodium heparin (green-top) or lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 10 days, Frozen: 28 days	Gross hemolysis	Mon-Fri
T4	***84436	1 mL serum	Plasma collected in: Sodium heparin (green-top) or lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	Gross hemolysis	Mon-Fri
TESTERONE, FREE (MALES AND FEMALES)	84402	2.8 mL serum collected in a red-top tube (no gel)	Plasma collected in: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	1.3 mL	Specify age and sex on test request form	Transport tube	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 2 years	Gross hemolysis • Grossly lipemic • Serum Separator Tube (SST®)	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
TESTERONE, TOTAL, MALES (ADULT) IMMUNOASSAY	84403	1 mL serum	N/A	0.5 mL	Dietary supplements containing biotin may interfere in assays and may skew results to be either falsely high or falsely low. For patients receiving the recommended daily doses of biotin, draw samples at least 8 hours following the last biotin supplementation. For patients on mega-doses of biotin supplements, draw samples at least 72 hours following the last biotin supplementation. Note: This assay should be performed on adult (≥18 years) males.	Serum Separator Tube (SST®)	Room temperature	Room temperature : 5 days, Refrigerated : 7 days, Frozen: 21 days	Grossly icteric	Mon-Fri
Testosterone, Total MS- Males and Females	84403	1 mL serum collected in a red-top tube (no gel)	Plasma collected in: Sodium heparin (green-top) tube or lithium heparin (green-top) tube	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 7 days, Refrigerated : 21 days, Frozen: 2 years	Gross hemolysis • Grossly lipemic • Serum Separator Tube (SST®)	Mon-Fri
Toxoplasma Antibodies (IgG, IgM)	86777, 86778	1 mL serum	N/A	0.6 mL	N/A	Transport tube	Room temperature	Room temperature : 4 days, Refrigerated : 7 days, Frozen: 30 days	Gross hemolysis	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
TPO AB	86376	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 10 days, Refrigerated : 14 days, Frozen: 28 days	Gross hemolysis	Mon-Fri
TRANSFERRIN	***84466	1 mL serum	N/A	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7days, Frozen: 90 days	N/A	Mon-Fri
TRIGLYCERIDE	***84478	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 5 days, Refrigerated : 7days, Frozen: 28 days	Anticoagulants other than heparin	Mon-Fri
TSH	***84443	1 mL serum	N/A	0.7 mL	This assay should only be ordered on patients 1 year of age or older. Orders on patients younger than 1 year will have a TSH only performed.	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 28 days, Frozen: 28 days	Plasma	Mon-Fri
TSH W/ REFLEX TO FT4	***84443	1 mL serum	N/A	0.7 mL	This assay should only be ordered on patients 1 year of age or older. Orders on patients younger than 1 year will have a TSH only performed.	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 28 days, Frozen: 28 days	Plasma	Mon-Fri
Urine-PH	83986	5mL Urine	N/A	5 mL	Freshly voided random urine	Plastic urine container	Room temperature	Room temperature : 14 days Refrigerated : 14 days Frozen: 14 days	Icteric samples, preservative added	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
UREA NITROGEN, 24 HOUR URINE	84540	10 mL urine aliquot from a well-mixed 24-hour collection - no preservative	Urine preserved with 6N HCl to maintain a pH of < 6.0. Preserved urine may be shipped at room temperature. Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Record total volume on both the transport container and the test requisition	Plastic urine container	Refrigerated (cold packs)	Room temperature (unpreserved): 24 hours (including collection time), Refrigerated : 7 days, Frozen: 15 months	Gross bacterial contamination	Mon-Fri
UREA NITROGEN, RANDOM URINE	84540	10 mL random urine, unpreserved collected in a plastic urine container	Urine collected in urinalysis transport tube (yellow-top, blue fill line, preservative tube) or preserved urine with 6N HCl acid submitted in a plastic urine container	1 mL	No preservative required. Ship refrigerated.	Plastic urine container	Refrigerated (cold packs)	Room temperature (unpreserved): 24 hours (including collection time), Refrigerated : 7 days, Frozen: 15 months	Gross bacterial contamination	Mon-Fri
Uric Acid	84550	1 mL serum	Sodium heparin (green-top) tube • Lithium heparin (green-top) tube	0.5 mL	Note: N-acetyl-p-benzoquinone imine (NAPQI) (metabolite of acetaminophen) will generate erroneously low results in samples for patients that have taken toxic doses of acetaminophen.	Serum Separator Tube (SST®)	Room temperature	Room temperature : 72 hours, Refrigerated : 7 days, Frozen: 28 days	Anticoagulants other than heparin	Mon-Fri
URINALYSIS ROUTINE	81001	10 mL urine - Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	Refrigerated unpreserved pediatric sample • Yellow/red swirl-topped conical transport tube with preservative	Preserved: 1 mL	Encourage mid stream samples to minimize contamination and improve accuracy. Label the sample appropriately and store at room temperature until pick-up.	Yellow-top, blue fill line urinalysis transport tube	Preserved: Room temperature	Room temperature : 72 hours Refrigerated : 72 hours Frozen: Unacceptable	Unpreserved specimen (adults)	Mon-Fri
URINE CREATININE	82570	10 mL random urine, no preservative	Urine collected in urinalysis transport tube (yellow-top, blue fill line, preservative tube) • Preserved urine with 6N HCl acid submitted in a plastic, urine container	0.5 mL	N/A	Plastic urine container	Room temperature	Room temperature : 7 days Refrigerated : 7 days Frozen: 28 days	N/A	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
URINE CULTURE	***87086	4 mL random, clean catch, midstream urine collection in gray-top urine transport tube	Indwelling catheter collected urine, unpreserved specimens less than 3 mL or from pediatric or from patients with renal abnormalities are acceptable when placed in a sterile, leak-proof container. (Specimens from long term care and/or pediatric difficult collections only)	Preserved: Transport tube must be filled to minimum line printed on tube Unpreserved: 0.5 mL urine	Fill to the fill-line (4 mL) indicated on the tube label	4 mL gray-top urine transport tube Sterile container: Only for specimens less than 3 mL from pediatric specimens or from patients with renal abnormalities.	Preserved: Room temperature or refrigerated (cold packs) Unpreserved: Refrigerated (cold packs) only	Preserved urine Room temperature: 48 hours Refrigerated: 48 hours Frozen: Unacceptable Unpreserved urine Room temperature: Unacceptable Refrigerated: 24 hours Frozen: Unacceptable	Preserved urine >48 hours old • Unpreserved urine >3 mL with exception of pediatric specimens or from patients with renal abnormalities • Unpreserved refrigerated urine >24 hours old • Unpreserved, not refrigerated urines • Urine tube not filled to minimum fill-line • Foley tips • Received frozen • Specimens from catheter bag • Urine in urinalysis transport tube • Requests for anaerobic culture • Expired transport devices • 24-hour urine collections • Leaking samples • Swabs • Urine culture devices	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
URINE HCG (HUMAN CHRONIC GONADOTROPIN) QUAL	81025	10 mL urine from a first morning voided specimen	Yellow-top, blue fill-line urinalysis transport tube • Urine collected in a clinical urine drug specimen vial	1 mL	N/A	Transport tube	Room Temp	Room temperature : 7 days Refrigerated : 7 days Frozen: Not established	N/A	Mon-Fri
URINE MICROALBUMIN (also known as Albumin Urine)	82043	5 mL random urine - no preservative	Urinalysis transport tube (yellow-top, blue fill line, preservative tube)	2 mL	Mix well if aliquoting. Note: Exercise within 24 hours, infection, fever, congestive heart failure, marked hyperglycemia, and marked hypertension may elevate urinary albumin excretion over baseline values.	Plastic urine container	Room temperature	Room temperature : 7 days Refrigerated : 14 days Frozen: 6 months	Acid preserved urine	Mon-Fri
Urine Protein, Random with creatinine	82570, 84156	10 mL urine from a well-mixed random collection - no preservative	Urinalysis transport tube (yellow-top, blue fill line	2 mL	N/A	Plastic urine container	Room temperature	Room temperature : 4 days, Refrigerated : 5 days, Frozen: 30 days	Acidified urine	Mon-Fri
Urine Protein, Random without creatinine	84156	10 mL urine from a well-mixed random collection - no preservative	Urinalysis transport tube (yellow-top, blue fill line	2 mL	N/A	Plastic urine container	Room temperature	Room temperature : 4 days, Refrigerated : 5 days, Frozen: 30 days	Acidified urine	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
URINE REFLEX TO CULTURE	81001	Submit two separate specimens: 1) 10 mL urine submitted in urinalysis transport tube (yellow-top, blue fill line, preservative tube) 2) 4 mL (fill to minimum line printed on tube; unpreserved for cultures) urine in urine culture tube (gray-top)	Yellow/red swirl-topped conical transport tube with preservative	Preserved (yellow-top, blue fill line): 1 mL, Urine in urine culture tube (gray-top): Must be filled to minimum line printed on tube, Unpreserved (culture): 0.5 mL	Encourage clean catch mid-stream samples to minimize contamination and improve accuracy. If sample is submitted unpreserved, please indicate that specimen is from pediatric patient (patient is less than or equal to 12 years of age). Label the sample appropriately. Unpreserved urine will be accepted from pediatric patients only.	Yellow-top, blue fill line urinalysis transport tube and gray-top urine culture tube	Preserved: Room temperature	Preserved urine Room temperature : 72 hours Refrigerated : 72 hours Frozen: Unacceptable	Unpreserved specimen (adults)	Mon-Fri
Valproic acid	80164	1 mL serum collected in a red-top tube (no gel)	Plasma collected in: EDTA (lavender-top), sodium heparin (green-top), lithium heparin (green-top), sodium fluoride or potassium oxalate (gray-top), or 3.2% sodium citrate (light blue-top) tube	0.2 mL	N/A	Transport tube	Room temperature	Room temperature : 5 days, Refrigerated : 7 days, Frozen: 30 days	Serum Separator Tube (SST®)	Mon-Fri
VANCOMYCIN Peak	80202	1 mL serum collected in a red-top tube (no gel)	Plasma collected in: EDTA (lavender-top) tube, sodium heparin (green-top) tube, lithium heparin (green-top) tube, 3.2% sodium citrate (light blue-top) tube, or fluoride/oxalate (gray-top) tube	0.2 mL	Collect as a trough just prior to next dose. Collect peak 1 hour after completion of the drug infusion.	Transport tube	Room temperature	Room temperature : 72 hours, Refrigerated : 7 days, Frozen: Unacceptable	Serum Separator Tube (SST®)	Mon-Fri
Vancomycin Trough	80202	1 mL serum collected in a red-top tube (no gel)	Plasma collected in: EDTA (lavender-top) tube, sodium heparin (green-top) tube, lithium heparin (green-top) tube, 3.2% sodium citrate (light blue-top) tube, or fluoride/oxalate (gray-top) tube	0.2 mL	Collect as a trough just prior to next dose. Collect peak 1 hour after completion of the drug infusion.	Transport tube	Room temperature	Room temperature : 72 hours, Refrigerated : 7 days, Frozen: Unacceptable	Serum Separator Tube (SST®)	Mon-Fri
VIT D	***82306	0.8 mL serum	N/A	0.5 mL	N/A	Transport tube	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	Moderate hemolysis • Grossly lipemic • Plasma	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
VITAMIN B12	***82607	1 mL serum	Amber vial	0.5 mL	N/A	Serum Separator Tube (SST®)	Room temperature	Room temperature : 7 days, Refrigerated : 7 days, Frozen: 28 days	Hemolysis	Mon-Fri
VZVlgG	86787	1 mL serum	N/A	0.5 mL		Transport tube	Room temperature	Room temperature : 4 days, Refrigerated : 7 days, Frozen: 30 days	N/A	Mon-Fri
WBC	***85048	Whole blood from a full EDTA (lavender-top) tube	N/A	1 mL whole blood	Maintain specimen at room temperature. Do not refrigerate. If multiple draw, collect EDTA (lavender-top) tube last. Mix by gently inverting 8 times. Traumatic draw can introduce thromboplastin and trap WBC and platelets. Refrigeration can precipitate fibrin and trap WBC and platelets.	EDTA (lavender-top) tube	Room temperature	Room temperature : 48 hours, Refrigerated : Unacceptable, Frozen: Unacceptable	Hemolysis • Clotted	Mon-Fri

TEST NAME (Panel)	CPT CODE	PREFERRED SPECIMEN	Alternate Specimen(s)	MINIMUM VOLUME	COLLECTION INSTRUCTIONS	Transport Container	Transport Temp	SPECIMEN STABILITY	Reject Criteria	Setup Schedule
WBC STOOL (Fecal Leukocyte Stain)	89055	10 grams or 10 mL stool collected in Zn-PVA or Total-Fix® transport vial	N/A	5 gm or 5 mL	<p>1. The specimen must be passed into a clean dry container and must not be contaminated with urine or water. If a toilet is used, the water supply may be cut off and the bowl drained.</p> <p>2. Add stool to bring the liquid level to the "Fill to here" line on the Para-Pak Zn PVA or Total-Fix® vial. Mix contents thoroughly until homogeneous.</p>	Zn-PVA vial	Room temperature	<p>Room temperature : 6 months</p> <p>Refrigerated : Not recommended</p> <p>Frozen: Unacceptable</p>	<p>Stool in Cary-Blair transport medium • Received frozen • Specimens containing Barium or received in preservatives other than Zn-PVA or Total-Fix® • Unpreserved stool</p>	Mon-Fri