

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Lactic Acid, Body Fluid	83605	Collect body fluid, on ice. 1 mL required volume 0.2 minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	24 hours	Outside Reference Laboratory Indicate source on test request form.
Lactic Acid, CSF Chemistry	83605	Collect CSF on ice. 0.5 mL required volume 0.2 mL minimum volume	Frozen	<i>Interpretive Data</i>	Set up: Sunday – Saturday	24 hours	Outside Reference Laboratory
Lactic Acid	83605	Plasma: Sodium fluoride gray top tube collected on ice.	Refrigerate	0.6– 2.6 mmols/liter	Set up 24 hours, daily	Stat: 1 hour ASAP	Critical Value: >4 mmols/L
Lamb IgE (Lamb and Mutton Meat Allergen)	86003	Serum, SST. tiger top tube 1 mL required volume 0.5 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory Unacceptable: Room Temperature
Lamotrigine <i>Formerly: Lamotrigine Level (Lamictal)</i>	80175	Serum, Plain red top tube no gel. Alternate: Plasma, EDTA Lavender top tube 1 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 – 4 days	Outside Reference Laboratory <i>Draw 1/2-1 hour before next dose at steady state. Do not use gel barrier tubes. Separate serum, plasma from cells ASAP.</i> Reject Criteria : Gross Hemolysis, Lipemia, Gel barrier tube.
Latex Allergen <i>Formerly: Latex IgE</i>	86003	Serum, SST tiger top tube 1 mL required volume 0.3 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Saturday	2 - 3 days	Outside Reference Laboratory
Lactate Dehydrogenase <i>Formerly: LD</i>	83615	Plasma: Lithium Heparin – green top tube Serum: SST red top tube	Refrigerate	113 - 245 U/L	Set up 24 hours, daily	Stat: 1 hour Routine: 4 hours	
LD, Body Fluid	83615	Body fluids: 5 mL	Refrigerate	<i>Interpretive Data</i>	Set up 24 hours, daily	Stat: 1 hour Routine: 4 hours	Indicate source of body fluid.

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LD Isoenzymes <i>(Lactate Dehydrogenase, Isoenzymes)</i>	83615 83625	Serum, SST, tiger top tube or plain red top tube. 1 mL required volume 0.6 mL minimum volume	Ambient Do Not Refrigerate Freeze.	<i>See Report or Scanned Document</i>	Set up: Sunday - Saturday	2 – 3 days	Outside Reference Laboratory <i>Do not refrigerate or freeze. Allow specimen to clot completely at room temperature. Separate serum from cells ASAP or within 2 hours of collection. Transfer 1mL (0.6mL) serum to an ARUP Standard Transport Tube.</i> <i>Unacceptable Conditions: Specimens collected with EDTA, potassium oxalate, or sodium fluoride anticoagulants. Frozen, refrigerated, or hemolyzed specimens.</i>
LD, CSF	83615	CSF fluid, 1 mL required volume	Refrigerate	<i>Interpretive Data</i>	Set up Sunday – Saturday	24 hours	Outside Reference Laboratory Stable ambient 3 days. Not stable Refrigerate or frozen.
LDL Direct See: Cholesterol, Direct LDL							
Lead, Urine 24 hours or Random	83655 82570	24 hour urine collection collected in a 24 hour acid washed container. Alternate: Random Urine Collected in Acid washed, container 8 mL required volume 1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	1 – 3 days,	Outside Reference Laboratory Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient's full name, medical record number, room number; date and time collection started and date and time collection finished. Outpatient Collection: Container must be labeled with patient's full name and date of birth; date and time collection started and date and time collection finished.

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<p>Lead, Urine 24 hours or Random -continued-</p>							<p>Collect: 24-hour or random urine collection. Specimen must be collected in a plastic container and should be refrigerated during collection. Studies indicate that refrigeration of urine alone, during and after collection, preserves specimens adequately if tested within 14 days of collection. Transfer an 8mL(1mL) aliquot of urine from a well-mixed collection to Trace Element-Free Transport Tubes. Unacceptable Conditions: Urine collected within 48 hours after administration of a gadolinium (Gd) containing contrast media (may occur with MRI studies). Acid preserved urine.</p>
<p>Lead Level</p>	<p>83655</p>	<p>Whole Blood, EDTA royal blue top tube, 7 mL required volume 3.5 mL minimum volume</p> <p>Alternate: Whole blood, EDTA Lavender top tube 4 mL required volume 2 mL minimum volume,</p> <p>Alternate: Whole blood EDTA Lavender Microtainer/Bullet 0.5 mL required volume 0.2 mL minimum volume</p> <p>Alternate: Whole Blood Lithium Heparin dark green top tube – no gel. 4 mL required volume 02. mL minimum volume</p>	<p>Refrigerate</p>	<p><i>See Report or Scanned Document</i></p>	<p>Set up: Monday – Friday</p>	<p>3 days</p>	<p>Outside Reference Laboratory The best specimen for lead testing on children is EDTA whole blood. Whole blood should be collected in Royal Blue-top (EDTA) evacuated tubes with negligible trace element levels. Capillary collection should be 0.5mL in Lavender Capillary Tube, gently invert capped microtainer several times to avoid clotting. The method utilized by the reference lab allows the use of Heparin no-gel (tubes and bullets) as an acceptable alternative if you anticipate a difficult draw and may not be able to fill an EDTA (tube or bullet). Heparin no-gel tubes will not interfere with lead testing. Notate on Specimen if Venous or Capillary Collection.</p> <p>Specimens must be received within 72 hours of collection.</p> <p>Collection Instructions: Use powder-less gloves. For capillary collection, wash hands thoroughly with soap and dry with clean, low-lint towel. Once washed, fingers must not come into contact with any surface. Clean skin</p>

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Lead Level -continued -							<p>(finger or other area for venipuncture) with lead free alcohol swab prior to puncture.</p> <p>The EDTA collected specimen volumes cannot be less than 50% of intended fill volume. Testing on specimens less than half filled and or clotted will not be performed, redraw will be required. Lead testing on Heparin collected specimens are not affected by variance of specimen volume.</p> <p>Avoid worksite collection: Tests performed on a specimen submitted in a non-trace element tube or non-acid washed/non metal free container may not accurately reflect the patient's level. If a non-trace element tube/container is received, it will be accepted for testing. However, elevated results shall be reported with a message that a re-submission with a trace element tube/container is recommended.</p>
Lead, 24 Hour and Random	83655 82570	Urine, Random 8 mL required volume 1.0 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Sunday - Saturday	1 – 3 days	Outside Reference Laboratory
Legionella Antigen, Urine	87449	Urine, Random 1 mL required volume 0.5 minimum volume	Refrigerate	Negative	Set up: 24 hours daily	< 1 day	
Legionella Culture	87081	Bronchial Washings, sputums, Pleural Fluids, Chest Fluids, CSF, Tissues	Refrigerate	No Legionella isolated.	Set up: 24 hours daily	10 days	
Legionella Antibody <i>Formerly: Legionella pneumophila Antibody Serogroups 1-6</i>	86713	Serum, SST tiger top tube 1 mL required volume 0.5 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Monday – Friday	1 – 4 days	Outside Reference Laboratory Alternate specimen: NONE.
Lemon Allergen <i>Formerly: Lemon IgE</i>	86003	Serum, SST tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Monday – Friday	2 – 4 days	Outside Reference Laboratory

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Leptospirosis Antibodies	86720	Serum, SST tiger top tube 1.0 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday, Thursday	1 -5 days	Outside Reference Laboratory Alternate specimen: Plasma (Sodium Heparin green top tube, EDTA Lavender top tube.
Lettuce IgE	86003	Serum, SST tiger top tube 1.0 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 – 4 days	Outside Reference Laboratory
Leucine Aminopeptidase	83670	Serum, SST tiger top tube. Also acceptable: Green (sodium or lithium heparin), lavender (EDTA), pink (K ₂ ETA), or Light blue (sodium citrate) tube. 1 mL required volume 0.5 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Friday	1 – 8 days	Outside Reference Laboratory
Leukocyte Alkaline Phosphatase	85540	1 – Heparin Tube (green top tube), no gel separator	Ambient	20 – 180	Set up: Monday - Friday 7:00 a.m. – 2:30 p.m.	24 hours	Send to Hematology as soon as possible after collection. If a fresh specimen is not available, fixation and storage overnight in freezer. Film should be dried 1 hour prior to fixation and 3 hours post-fixation before freezing. Prepare and freeze control at the same time.
Levetiracetam, Level (Kappra)	80177	Serum, Plain red top tube, no gel.. Alternate: Plasma EDTA Lavender top tube . 1 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	1 – 3 days	Outside Reference Laboratory <i>Do not use Gel separation tubes. Separate plasma/serum from cells as soon as possible – prolonged presence of whole blood may cause hydrolysis of Levetiracetam</i>
Lidocaine Level	80176	Collect specimen in plain red top tube. Also acceptable green (sodium heparin) 1 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up Sunday - Saturday	24 hours	

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Lima Bean Allergen <i>Formerly: Lima Bean IgE</i>	86003	Serum, SST, tiger top tube 1 mL required volume 0.15 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	<i>Outside Reference Laboratory</i>
Lime Allergen <i>Formerly: Lime IgE</i>	86003	Serum, SST tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i>
Lipase Level	83690	Plasma: Lithium Heparin – green top tube Serum: SST red top tube	Refrigerate	5.6 – 51.3 U/L	Set up 24 hours, Daily	Stat: 1 hour Routine: 4 hours	
Lipid Profile, Survey Panel -	80061	Plasma: Lithium Heparin – green top tube Serum: SST red top tube	Refrigerate	See below for reference ranges: Cholesterol: ≤ 200 mg/dl HDL: Male: 27 –67 mg/dl Female: 34 – 91 mg/dl LDL: Male: 0 – 19 yrs: 50 - 100 mg/dl Female: 0 – 19 yrs: 50 - 100 mg/dl Triglyceride ≤ 200 mg/dl Cholesterol / HDL Ratio: Interpreted by clinical findings by physician. interpretation of LDL Category LDL Cholesterol < than 100 mg/dl -- Optimal 30 to 159 mg/dl – Near Optimal /Above Optimal 160 to 169 mg/dl – Borderline high 160 to 189 mg/dl -- High > than 190 mg/dl – Very High	Set up 24 hours, daily	Stat: 1 hour Routine: 4 hours	Tests included: Cholesterol, Triglyceride, HDL Cholesterol, LDL Cholesterol, Cholesterol/HDL Ratio,

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Lipoprotein (a)	83695	Serum, SST. tiger top tube. Alternate: Plasma EDTA Lavender top tube. Alternate: Plasma Lithium heparin light green top tube. 1 mL required volume 0.5 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sun day – Saturday	2 – 3 days	Outside Reference Laboratory Serum separator tube or plasma separator tube. Also acceptable: Green (sodium or lithium heparin), lavender (EDTA). Allow serum to clot completely at room temperature. Separate serum or plasma from cells ASAP or within 2 hours of collection. Unacceptable Conditions: Body Fluids.
Lipoprotein Electrophoresis	82465 82664 84478	Serum, SST tiger top tube 2 mL required volume 1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up Monday, Wednesday, Friday	3 – 4 days	Outside Reference Laboratory Panel includes: Cholesterol, Total. Triglycerides, Serum, Chylomicrons, Beta Lipoproteins, Pre-Beta Lipoproteins, Alpha Lipoproteins, Serum Appearance, Interpretation
Lithium Level	80178	Serum: red top tube 0.5 ML required volume	Refrigerate	0.5 – 1.5 mmols/Liter	Set up 24 hours, daily	Stat: 1 hour Routine: 4 hours	Critical Value: > 1.5 mmol / Liter
Liver-Kidney Microsome – 1 IgG Antibody <i>Formerly: Liver-Kidney Microsome Autoantibodies</i>	86376	Serum, SST tiger top tube 1 mL required volume 0.15 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday, Tuesday, Thursday	2 – 5 days	Outside Reference Laboratory Unacceptable Specimens: Hemolyzed, lipemic, contaminated, or heat-inactivated specimens. (Avoid repeated freeze/thaw cycles).
Lobster Allergen <i>Formerly: Lobster IgE</i>	86003	Serum, SST. tiger top tube 1 mL required volume 0.5 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory Unacceptable: Room Temperature
Lombardy Popular Tree Allergen <i>Formerly: Lombardy Popular IgE Allergen Specific</i>	86003	Serum, SST tiger top tube 1 mL required volume 0.1 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory
LS Ratio Group	83661 84081	Collect Amniotic fluid. 10 mL required volume 4 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	30 hours	Outside Reference Laboratory

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Lupus Anticoagulant	85597	Plasma, Sodium Citrate light blue top tube and SST, tiger top tube. See instructions to the right.	Frozen	<i>See Report or Scanned Document</i>	Set up: Sunday - Saturday	1 - 2 days	<p>Outside Reference LaboratorG/IgM Antibodies, Beta-2 Glycoprotein Antibody, IgG and IgM, Lupus Anticoag Analyzer Order, Russel Viper Venom, PT and PTT, PTT LA</p> <p>Test includes: Cardiolipin Ig <i>Please list the patient's anticoagulant on the "Coagulopathy Questionnaire Form" and submit with specimen or fax to 918-744-3236.</i></p> <p>Please collect: Twelve: 2.7mL Sodium Citrate Blue top tubes and One: 10mL Tiger top clot tube. Each 2.7mL Sodium Citrate 3.2% (Blue Top) tube must be filled to the proper level, no hemolysis. Improperly filled tubes can give erroneous results. Whole blood must be transported to lab immediately. If testing cannot be started within 4 hours of collection the specimen must be double spun then 1.5mL plasma aliquot from each tube into individual plastic aliquot tubes and freeze. Do not pool aliquots together!</p>
Luteinizing Hormone	83002	Serum: SST red top tube	Refrigerate	<p>Males: 1.5 – 36.4 mIU/mL</p> <p>Normally Menstruating Females: Follicular Phase: 1.9-12.5 mIU/mL Mid-Cycle Peak: 8.7–76.3 mIU/mL Luteal Phase: 0.5-16.9 mIU/mL</p> <p>Post-menopausal Females: 15.9 – 54.0 mIU/mL</p> <p>Pregnant: <0.1-1.5</p>	Set up 24 hours, daily	24 hours	

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Lyme Disease Antibody <i>Formerly: Lyme Ab Screen w/Reflex to Western Blot</i> (Borrelia Burgdorferi Antibodies, IgG & IgM by Western Blot)	86618	Serum, SST, tiger top tube 1 mL required volume 0.1 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Seasonal and volume dependent	5 – 7 days	Outside Reference Laboratory
Lyme Disease by PCR <i>Formerly: Lyme AB Total</i> (Borrelia Burgdorferi Antibodies, Total)	87476	Plasma, EDTA Lavender top tube 1 mL required volume 0.5 mL minimum volume Alternate: CSF Cerebrospinal Fluid collected in screw top container 1 mL required volume 0.5 mL minimum volume Alternate: Tissue Sterile Orange screw top Container. See instructions.	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	2 -5 days	Outside Reference Laboratory Collect: Lavender (EDTA) Plasma, CSF or Synovial fluid or Tissue, Serum from SST tube also acceptable. Separate serum or plasma from cells. Transfer 1mL(0.5mL) serum, plasma, CSF or synovial fluid to an aliquot tube. Tissue: Transfer to an aliquot tube and freeze immediately. Unacceptable Conditions: Heparinized specimens. Stability: Tissue: Ambient: Unacceptable; Refrigerated: Unacceptable; Frozen: 1 year All Others: Ambient: 8 hours; Refrigerated: 72 hours; Frozen: 1 year
Lyme IgG, IgM Abs by Western Blot <i>Formerly: Lyme IgG/IgM WB</i> (Borelia burgdorferi IgG/IgM) Western Blot	86617 x2	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 – 3 days	Outside Reference Laboratory Specimen Preparation: Separate serum from cells ASAP or within 2 hours of collection. Unacceptable Conditions: CSF or plasma. Contaminated, heat-inactivated, hemolyzed, or severely lipemic specimens
Lymphocytic Choriomeningitis (LCM) Antibody	86727 x2	Serum, SST tiger top tube 1 mL required volume 0.1 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Tuesday – Friday	1 -5 days	Outside Reference Laboratory Unacceptable: Contaminated, hemolyzed, or severely lipemic specimens.
Lymphogranuloma Venereum Panel <i>Formerly: Lymphogranuloma Venereum Titer</i>	86631 X6 86632 X3						

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Lysozyme, Serum <i>Formerly: Muramidase, Urine</i>	85549	Serum. SST, tiger top tube 1 mL required volume 0.5 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday – Thursday	2 – 3 days	Outside Reference Laboratory Allow to Clot then Centrifuge and Separate Serum into plastic aliquot tube within 1hr of collection and Freeze..! Avoid freezing and thawing. Do not send plasma.
Macadamia Nut Allergen <i>Formerly: Macadamia Nut IgE Allergen</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set u: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Mackerel IgE	86003	Serum SST, tiger top tube 0.3 mL required volume 0.2 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set u: Monday – Friday	3 days	Outside Reference Laboratory
Magnesium	83735	Plasma: Lithium Heparin – green top tube Serum: SST red top tube	Refrigerate	1.6 – 2.6 mg/dl	24 hours, daily	Stat: 1 hour Routine: 4 hours	Critical Value: <1.2 mg/dl >3.6 mg/dl Obstetric Therapeutic Magnesium Patients: 8.0 mg/dl
Magnesium, Urine (Random and 24 hours) <i>Formerly: Magnesium, 24 Hour Urine</i>	83735 82570	Random Urine, Collect urine in sterile container. 24 hour Urine Collect in 24 Hour urine container 4 mL required volume 0.5 mL minimum volume	Refrigerate	<i>Interpretive Data</i>	Set up: Sunday – Saturday	2 days	Outside Reference Laboratory Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient's full name, medical record number, room number; date and time collection started and date and time collection finished. Outpatient Collection: Container must be labeled with patient's full name and date of birth; date and time

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Magnesium, Urine (Random and 24 hours) -continued-							collection started and date and time collection finished. 24-hour urine. Refrigerate during collection. Adjust pH to 1 by adding 6M HCl (approximately 10 mL HCl/24-hour specimen based on normal adult output of 1000-2000 mL/24 hours. Pediatric specimens will require less than 10 mL to reach the correct pH). Record total volume and collection time interval on transport tube and test request form. Transfer 4 mL aliquot of urine from a well-mixed 24-hour collection to a Standard Transport Tube. Unacceptable Conditions: Specimens containing preservatives other than HCl. Specimen submitted in metal containers
Magnesium Urine, Random	83735	Radon urine collection in urine cup.	Refrigerate	<i>Interpretive Data</i>	Set up: 24 hours Daily	1 hour	
Malt Allergen <i>Formerly: Malt IgE</i>	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i>
Malaria Smear	87207	Thin and Thick fingerstick smears and 1 – EDTA Tube (Lavender Top)	Ambient	Negative	24 hours, daily	2 – 4 hours	Positive smears are reviewed by a Pathologist and are sent to the Tennessee Department of Health Lab for confirmation/speciation.
Box Elder (Maple) Tree Allergen <i>Formerly: Maple (Box Elder) IgE</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i> Unacceptable: Room Temperature
Maternal Screen 1 (AFB only) <i>Formerly: AFP Maternal Screen</i>	82105	Serum, SST, tiger top tube 1 mL required volume 0.2 mL minimum volume	Ambient	<i>See Report or Scanned Document</i>	Set up: Monday – Saturday	2 – 4 days	<i>Outside Reference Laboratory</i> The below information is required for accurate result interpretation: Maternal weight, Maternal race, Maternal insulin-dependent diabetes status: History of Neural Tube Defects:

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Maternal Screen 1 (AFB only) <i>-continued-</i>							History of Downs Syndrome, Number of fetuses, Estimated Date of Delivery (EDD), Method of EDD determination: US/LMP/PE:
Meadow Fescue Allergen <i>Formerly: Meadow Fescue IgE</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory Unacceptable: Room Temperature
Manganese, Blood	83735	Whole Blood, royal blue top tube EDTA 7 mL required volume 1.0 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Tuesday, Friday	1 – 5 days	Outside Reference Laboratory
Measles (Rubella) IgG/IgM Abs. CSF	86765 x2	Collect CSF Specimen 1 mL required volume 0.75 minimum volume	Ambient	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	25 days	Test includes: Measles (Rubella) Antibody IgG, CSF, Measles (Rubella) Antibody IgM CSF
Measles IgG	86765	Serum SST, tiger top tube 1.0 mL required volume 0.15 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	24 hours	Outside Reference Laboratory
Meclizine Screen	80307	Plasma, EDTA Lavender top tube Alternate: Serum Palin Red top tube 2 mL required volume 0.8 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Tuesday, Friday	3 days	Outside Reference Laboratory
Meconium Drug Screen (10 Panel) <i>Formerly: Meconium Drug Panel, Comprehensive</i>	80301	Meconium 5 g required volume 1g minimum volume Chain of Custody required	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday - Saturday	3 - 5 days	Outside Reference Laboratory CHAIN OF CUSTODY TEST ! - Please contact RML Client Services to arrange for collection supplies and instruction before submission of specimen for testing. 5g(1g) Meconium in an appropriate Chain of Custody packet, Refrigerated Includes Opiates, Cocaine and metabolite, Benzodiazepines,

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Meconium Drug Screen (10 Panel) -continued- :							Cannabinoids, Amphetamines, Barbiturates, Methadones, Oxycodone, Phencyclidine, Propoxyphenes, Marijuana (THC) and metabolite
Melons Allergen <i>Formerly: Melons IgE</i>	86003	Serum SST, tiger top tube 1.0 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set u: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i>
MEN 2 RET Gene Sequencing <i>Formerly: MEN 2 RET Gene Mutations Multiple Endocrine Neoplasia Type 2 (MEN2) RET Gene Mutations)</i>	81405	3 mL whole blood 1 mL. minimum volume Lavender (EDTA), pink (K ₂ EDTA), or yellow (ACD Solution A or B).	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Varies	14 – 21 days	<i>Outside Reference Laboratory</i>
Meprobamamte Level	80369	Plasma, EDTA Lavender top tube Alternate: Serum Plain Red top tube, no gel 2 mL required volume 1.5 mL minimum volume	Ambient	<i>See Report or Scanned Document</i>	Set up: Tuesday, Thursday	6 days	<i>Outside Reference Laboratory</i>
Mercury, 24 hour Urine	83825 82570	24 hour urine collections should be collected in a 24 hour urine container with no preservatives+ (acid washed container) 8 mL required volume 1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Saturday	2 –5 days	<i>Outside Reference Laboratory</i> Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient's full name, medical record

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Mercury, 24 hour Urine -continued-							number, room number; date and time collection started and date and time collection finished. Outpatient Collection: Container must be labeled with patient's full name and date of birth; date and time collection started and date and time collection finished. Unacceptable Conditions: Urine collected within 48 hours after administration of a gadolinium (Gd) containing contrast media (may occur with MRI studies). Acid preserved urine.
Mercury, Blood <i>Formerly: Mercury, Quantitative</i>	83825	Whole blood, royal blue top tube EDTA 7 mL required volume 1 mL minimum volume	Refrigerate DO NOT FREEZE.	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 – 3 days	Outside Reference Laboratory DO NOT FREEZE. Patient should refrain from eating seafood and taking herbal supplements at least 3 days prior to sample collection.
Mercury, Random Urine	83825 82570	Urine, Random 8 mL required volume 1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday– Saturday	2 – 5 days	Outside Reference Laboratory Collect two 8 mL aliquots of the same second morning urine in an acid – washed container. Unacceptable Conditions: Urine collected within 48 hours after administration of a gadolinium (Gd) containing contrast media (may occur with MRI studies). Acid preserved urine.
Metanephrines, Fractionated 24 Hour Urine	-83835 82570	24 hour urine collections should be collected in a 24 hour urine container with no preservatives 4 mL required volume 1.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 – 4 days	Outside Reference Laboratory Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient's full name, medical record

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Metanephrines, Fractionated 24 Hour Urine -continued-							number, room number; date and time collection started and date and time collection finished. Outpatient Collection: Container must be labeled with patient's full name and date of birth; date and time collection started and date and time collection finished. Record total volume and collection time interval on transport tube and test request form. Patient Preparation: If possible, abstain from medications for 72 hours prior to collection
Metanephrines <i>Formerly: Metanephrines, Plasma</i>	83835	Collect specimen in a Lavender (EDTA) tubes. 6 mL required volume	Frozen	<i>Interpretive Data</i>	Set up: Sunday – Saturday	2 – 4 days	Unacceptable Conditions: Plasma separator tubes. Body fluids other than EDTA or heparinized plasma. Non-frozen specimens.
Methadone Urine	G0479	Random urine	Ambient	Negative	Set up: 24 hours, daily	Stat: 30 minutes Routine: 4 hours	
Methanol Level <i>Formerly: Methanol</i>	84600	Collect specimen in dark green – sodium heparin tubes 5 mL required volume	Refrigerate	<i>Interpretive Data</i>	Set up: Sunday - Saturday	24 hours	
Methemoglobin	83050	Whole Blood: Heparin green top tube on ice.	Refrigerate	0.1 – 1.5% saturation	Set up: 24 hours, daily	30 minutes	
Methaqualone, Urine	80368	Urine, 24 hour 2.0 mL required volume 0.7 mL minimum volume	Refrigerate	<i>Varies</i>	Set up: Sunday – Saturday	3 – 10 days	<i>Outside Reference Laboratory</i>
Methotrexate Level	80299	Serum SST, tiger top tube Alternate: Plasma in a Lithium Heparin light green top tube. 4 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Daily	1 day	<i>Outside Reference Laboratory</i>

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Methylhistamine, 24 hour Urine	83789	24 hour urine collections should be collected in a 24 hour urine container with no preservatives 5 mL required volume 3 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Varies	7 – 10 days	Outside Reference Laboratory Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient's full name, medical record number, room number; date and time collection started and date and time collection finished. Outpatient Collection: Container must be labeled with patient's full name and date of birth; date and time collection started and date and time collection finished.
MTHFR, DNA Mutation Analysis <i>Formerly: Methylenetetrahydrofolate Reduct DNA</i>	81291	Whole blood EDTA Lavender top tube 6 mL required volume 3 mL minimum volume	Ambient	Interpretive Data	Set up: Thursday Dayshift	2 – 8 days	Outside Reference Laboratory Room temperature or Refrigerated is acceptable. Stability: Room Temp 8 Days, Frozen Not Acceptable. Do Not Centrifuge. Specimen cannot be shared with other testing for risk of DNA contamination.
Methylmalonic Acid, Quantitative	83921	Serum, SST, tiger top tube Alternate: Plasma Lithium Heparin PST green top tube 1.2 mL required volume 0.6 minimum volume	Frozen	See Report or Scanned Document	Set up: Sunday – Saturday	2 – 4 days	Outside Reference Laboratory Centrifuge and remove serum or plasma from cells within 2 hours of collection. Transfer 1.2 mL serum or plasma to a standard transport tube and freeze immediately. Unacceptable Conditions: Room temperature specimens. Grossly hemolyzed or lipemic specimens
Methylphenidate	80360 Alt. Code G0480	Gray (sodium fluoride/potassium oxalate). Also acceptable: Plain red, green (sodium heparin), lavender (EDTA), or pink (K ₂ EDTA). 2 mL required volume 1mL minimum volume	Frozen	See Report or Scanned Document	Set up: Monday, Thursday	1 – 7 days	Outside Reference Laboratory Collect specimen 1-6 hours after dose administration. Separate serum or plasma from cells ASAP or within 2 hours of collection.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Mexiletine Level	80299	Serum (Plain red top tube) 3 mL required volume 1.5 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	6 days	Outside Reference Laboratory NO SST TUBES.
Microalbumin Level 24 Hour Urine <i>Formerly: Microalbumin- Quantitative Urine</i>	82043	Urine, 24 hours Collected in a 234 hour urine container 1 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Friday	1 - 2 days	Outside Reference Laboratory 24 hour urine collection. No preservative. Record number of hours and volume in ml on the specimen container. Keep refrigerated. Specimen stability: Ambient 24 hours. Refrigerated 7 days.
Cow Milk IgG 83520	86001	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Ambient	<i>See Report or Scanned Document</i>	Set u: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Mitochondrial Antibody Titer	83516	Serum, SST, tiger top tube 1 mL required volume 0.5 mL minimum volume 2	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	Outside Reference Laboratory
Mitochondrial Antibody M2 IgG <i>Formerly Mitochondrial Total Autoantibodies</i>	83520	Serum, SST, tiger top tube 1 ml required volume 0.3 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Wednesday	2 – 8 days	Outside Reference Laboratory Specimen Stability: Room temperature: 7 days, Refrigerated: 14 days, Frozen: 30 days
Mono Test (Mononucleosis - Immunology) (Monospot)	86308	Collect Serum specimen in plain red top tube or EDTA for plasma 3 mL required volume 0.15 minimum volume	Refrigerate	Negative	Set up: 24 hours, Daily	2 hours from receipt in laboratory	Latex Agglutination
Mountain Cedar IgE	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set u: Monday – Friday	2 - 4 days	Outside Reference Laboratory Unacceptable specimen: Room Temperature
Mouse Urine Proteins Allergen	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set u: Monday – Friday	2 - 4 days	Outside Reference Laboratory

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
MPO/PR 3 (ANCA) Antibodies	83516	Serum SST, tiger top tube 1 mL required volume 0.2 minimum volume	Refrigerate	<i>Interpretive Data</i>	Set Up: Sunday – Saturday	1 – 2 days	Outside Reference Laboratory Test include: Myeloperoxidase Antibody IgG, Protease # Antibody
MRSA DNA Screen	87641	Nasal swabs	Ambient	Culture Negative for MRSA	Set up: 24 hours Daily	48 hours	
MRSA Surveillance Culture (Staphylococcus Surveillance Culture)	87081	Culturette. Note site specimen is collected from. Put specimen in sterile container.	Ambient	<i>Interpretive Data</i>	Set up: Daily	2 – 5 days	
Mugwort Allergen <i>Formerly: Mugwort IgE</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory Unacceptable specimen: Room Temperature
Mulberry tree White Allergen <i>Formerly; White Mulberry IgE</i>	86003	Serum SST, tiger top tube 0.3 mL required volume 0.15 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	Outside Reference Laboratory
Mumps Ab Panel, CSF	86735 x2	Collect CSF specimen 0.5 mL required volume 0.3 mL minimum required	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	24 hours	Outside Reference Laboratory
Mumps Antibody IgG <i>Formerly: Mumps IgG</i>	86735	Serum, SST, tiger top tube 1 mL required volume 0.2 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday - Saturday	1 – 2 days	Outside Reference Laboratory Alternate specimen: NONE.
Mumps IgM	86735 X2	Serum, SST, tiger top tube 1 mL required volume 0.2 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	1 – 5 days	Outside Reference Laboratory
Mumps IgG / IgM	86735 X2	Serum, SST, tiger top tube 1 mL required volume 0.2 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	3 days	Outside Reference Laboratory

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Muramidase, Urine See: Lysozyme, Serum							
Mushroom Allergen <i>Formerly: Mushroom IgE</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Musk Quantitative Titer Ab Test	83519	Serum SST, tiger top tube , or a plain red top. 0.3 mL required volume 0.15 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Varies	3 – 13 days	Outside Reference Laboratory
Mustard Seed Allergen <i>Formerly: Mustard IgE</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Muscle Biopsy	88305 and other codes may include 88313, 88314, and 88319	Skeletal Muscle Biopsy Specimen must be received STAT on telfa pad lightly moistened with saline.	Fresh	Results interpreted by a Pathologist	Set up: Mon – Fri 8:00 a.m. 12:00 pm	48 hours up to 3 weeks	Outside Reference Laboratory Cases should be scheduled no later than 12:00 p.m. Special Instructions: Pathologist needs clinical data that preferably should include serum CK (CPK) level and electromyography (EMG) findings. Clinical history, laboratory findings, and site of biopsy are essential to interpretation and should be received with specimen.
Myasthenia Gravis Panel	83516 X2 83519 if reflexed add 83516 and/or 86256	Serum, SST tiger top tube 2 mL required volume 0.2 minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Varies	7 days	Outside Reference Laboratory Test Includes: Acetylcholine Receptor Binding Antibody, Acetylcholine Receptor Blocking Antibody, Acetylcholine Receptor Modulating Antibody
Mycobacteria (AFB) DNA by PCR	87551 87556 87861 X2	Bronchial Washings: 3.0 (min 1.0) mL, ambient (24 hrs) or refrigerated (7 days), in sterile plastic leak-proof container. Ship with cold	Refrigerate	<i>See Report or Scanned Document</i>	Set up: 25 hours, Daily	1 – 2 days	Outside Reference Laboratory

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Mycobacteria (AFB) DNA by PCR -continued-		pack. Sputum: 10.0 (min 5.0) mL, ambient (24 hrs) or refrigerated (7 days) in sterile plastic leak-proof container. For best results, collect 3 consecutive early morning samples. Ship with cold pack. Positive AFB (Concentrate/Liquid Media): 1.0 (min 0.5) mL, ambient (24 hrs) or refrigerated (7 days), in sterile plastic leak-proof container, double-bagged with absorbent cloth. Acceptable media include AFB concentrate re-suspended in buffer solution, BacT/ALERT, BACTEC, and Trek. Positive AFB (Solid Media): submit swab or small portion of colony (e.g. LJ medium), ambient (24 hrs) or refrigerated (7 days). Ship with cold pack. CSF: 1.0 (min 0.3) mL, refrigerated (7 days) in sterile leak-proof container. Bodily Fluid (e.g. pleural fluid): 3.0 (min 1.0) mL, ambient (24 hrs) or refrigerated (7 days), in sterile plastic leak-proof container. Ship with cold pack					
Mycophenolic Acid and Metabolites <i>Formerly: Mycophenolic Acid</i>	80180	Serum, Plain red top tube, no gel. Alternate: Plasma EDTA Lavender top tube 1 mL required volume 0.6 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Tuesday, Thursday, Saturday	2 – 4 days	<i>Outside Reference Laboratory</i> Separate serum or plasma from cells ASAP. Do not use gel separator.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Mycoplasma Antibody <i>Formerly: Mycoplasma IgG and IgM</i>	86738	Serum, SST tiger top tube 1 mL required volume	Refrigerate	<i>Interpretive Data</i>	Set up: 24 hours, Daily	2 hours from receipt of specimen.	
Mycoplasma IgM Antibody	86738	Serum, SST tiger top tube 1 mL required volume	Refrigerate	<i>Interpretive Data</i>	Set up: 24 hours, daily	2 hours from receipt of specimen.	
Mycoplasma by PCR	87581	Collect respiratory specimen. Bronchoalveolar lavage, bronchial brushings, nasopharyngeal swab, sodium tracheal aspirates or pleural fluid, or CSF. Collect CSF Specimen in sterile container. 1 mL required volume 0.5 mL minimum volume Collect fluid specimen in a sterile container. 2 mL required volume 0.5 mL minimum volume Swab specimen place in viral transport media.	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	1 – 4 days	Outside Reference Laboratory Place each specimen in individual sealed bags.
Mycoplasma Pneumoniae Culture	87109	Throat swab collected in V-C-M medium (green cap) tube or equivalent (UTM) container. 1 mL or 1 swab required	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Daily	3 – 4 days	Outside Reference Laboratory Ship on dry ice. Submit a 1:1 volume of lung tissue, pleural, pericardial, nasopharyngeal aspirate or swab, bronchial lavage/wash in V-C-M or equivalent transport media. For genital specimens refer to test 871 (<i>Mycoplasma hominis</i> /ureaplasma Culture).
Myelin Basic Protein, CSF	83873	CSF (Cerebrospinal fluid) collected in sterile screw top container 1.2 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	3 – 4 days	Outside Reference Laboratory

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Myeloperoxidase Antibody <i>Formerly: Myeloperoxidase Antibody IgG</i>	83520						
Myoglobin, Blood	83874	Plasma: Lithium Heparin – green top tube Serum: SST red top tube	Refrigerate	0 – 116.3 ng/mL	Set up: 24 hours, Daily	Stat: 1 hour Routine: 4 hours	Critical Value: > 116.3 ng/mL
Myoglobin Urine <i>Formerly: Myoglobin, Qualitative Urine</i>	83874	Urine, Random or 24 hour urine collection 1 mL required volume 0.5 minimum volume	Refrigerate	See Report or Scanned Document	Set up: Sunday – Saturday	24 hours	Outside Reference Laboratory
Myocardial Antibodies	86255 If Reflexed Add 86256	Serum, EDTA lavender top tube and SST, tiger top tube 1 mL required volume 0.15 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Monday – Friday	1 – 4 days	Outside Reference Laboratory
Mysoline – see Primidone	80184 80188	Green – Sodium heparin tube 1 mL required volume 2	Refrigerate	See Report or Scanned Document	Set up: 24 hours, daily	1 – 2 hours	Outside Reference Laboratory NO SST Tubes
NAT Testing	87801 and if positive add 87535, 87516, 87521	EDTA plasma must be sent STAT ; stable for only 72 hours 3. mL minimum volumes	Refrigerate	Negative	Set up: Monday – Thursday	24 hours	
Neonatal Bilirubin See: Bilirubin Neonatal							
N Methylhistamine, Urine	82542	Urine, 24 hour collection Collect in 24 hour urine container 50 mL required volume 5 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Monday, Thursday	3 – 6 days	Outside Reference Laboratory 24Hr urine collection. Keep refrigerated during collection. A preservative are not necessary, but is compatible with 50% Acetic Acid, Boric Acid or Thymol.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Neosen Paraneoplastic Sensorimotor Profile. Includes Neuronal Nuclear Ab (HU) & Purkinje Cell Ab (YO)	86255	Serum, SST tiger top tube 2 mL required volume 0.75 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: 2 - 9	1 - 9 days	Outside Reference Laboratory Separate serum from cells ASAP or within 2 hours of collection. Unacceptable Conditions: Plasma. Contaminated, heat-inactivated, hemolyzed, or lipemic specimens
Nerve Biopsy	88305 See Comment Section for more information.	Biopsy of nerve tissue Specimen must be received in glutaraldehyde in muscle clamp.	Ambient	Results interpreted by a Pathologist	Set up: Monday – Friday 8:00 a.m. – 12:00 p.m.	48 hours to 3 weeks	Outside Reference Laboratory Special Instructions: Handling of the specimen should be kept at a minimum, with care taken not to traumatize the specimen. Submit to Surgical Pathology in glutaraldehyde in muscle clamp. The requisition must state the operative diagnosis and the source of the specimen. If biopsy is stained add CPT code 88313 for each stained performed. If electron microscopic performed add CPT code 88348
Neuron Specific Enolase	86316	Serum, SST. tiger top tube 1 mL required volume 0.15 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	1 – 4 days	Outside Reference Laboratory NSE is high in platelets and RBC. Therefore, plasma and hemolyzed specimens are not acceptable. Serum should be separated from cells immediately. Allow specimen to clot completely at room temperature. Separate serum from cells ASAP. Serum should be separated from cells immediately to avoid release of NSE from blood cells. Avoid repeated freeze/thaw cycles.
Neuronal Nuclear Antibodies IgG, Immunoblot <i>Formerly: Neuronal Nuclear IgG Type 1 Hu</i>	83516	Serum, SST, tiger top tube 1 mL required volume 0.15 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Thursday	2 – 9 days	Outside Reference Laboratory Separate serum from cells ASAP or within 2 hours of collection. Unacceptable Conditions: Plasma. Contaminated, heat-inactivated, hemolyzed, or lipemic specimens
Neuronal Nuclear IgG 1 Hu R, YO	83516	Serum, SST tiger top tube 1 mL required volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up;: Thursday	1 – 8 days	

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Newborn Cord Blood Study	86900 86901 86880	Collect Cord Blood specimen, or a purple bullet.	Ambient	<i>Interpretive Data</i>	Set up: 24 hours, daily	Stat: 2 hours Routine: 4 hours	Includes ABO and Rh newborn, and DAT IgG newborn.
Niacin, (Vitamin B3) <i>Formerly: Vitamin B3</i>	84591	Plasma, Lavender (EDTA) tube 4 mL required volume 1 mL minimum volume <i>Protect Specimen from Light.</i>	Frozen	<i>See Scanned Document</i>	Set up: Varies	6 – 12 days	<i>Outside Reference Laboratory</i> Protect from light. Transfer 4mL(1mL) EDTA plasma to an Light protected or Amber Transport Tube and freeze immediately. CRITICAL FROZEN. Separate specimens must be submitted when multiple tests are ordered. Unacceptable Conditions: Thawed specimens or specimens not protected from light. Grossly hemolyzed or lipemic specimens.
Nicotine and Metabolites <i>Formerly: Cotinine, Serum</i>	80323 Alt. G6055	Serum SST, tiger top tube 4 mL required volume 1 mL minimum volume	Ambient	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 - 5 days	<i>Outside Reference Laboratory</i> Separate serum or plasma from cells ASAP or within 2 hours of collection. Unacceptable Conditions: Plasma or whole blood collected in blue top Sodium Citrate tubes. Specimens exposed to repeated freeze/thaw cycles
Nicotine and Metabolites Urine <i>Formerly: Nicotine & Cotinine, Urine</i>	80323	Urine, Random 4 mL required volume 1 mL minimum volume	Ambient	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 – 5 days	<i>Outside Reference Laboratory</i>
Nipple Discharge Smears, Cytology	88160	Smears should be prepared on labeled glass slides and immediately fixed with cytologic fixative.	Ambient	Physician Interpretation	Set up: Monday - Friday 7:00a.m. – 6:00 p.m.	24 hours	
Norovirus, Stool	87798 x2	Stool specimen. 1 mL required volume 0.5 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	1 – 5 days	<i>Outside Reference Laboratory</i>

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Nortriptyline Level	80335	Serum SST, tiger top tube Alternate: Plasma EDTA Lavender top tube 1 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	2 – 6 days	Outside Reference Laboratory Timing of specimen collection: Pre-dose (trough) draw - At steady state concentration. Separate serum or plasma from cells within 2 hours of collection. Transfer serum or plasma to a Standard Transport Tube. Unacceptable Conditions: Whole blood. Gel separator tubes, light blue (citrate), or yellow (SPS or ACD solution).
Norpace-Disopyramide Phosphate <i>Formerly: Disopyramide Level (Norpace)</i>	80299	Serum (Plain red top tube) 1 mL required volume 0.5 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Tuesday – Friday	1 - 5days	Outside Reference Laboratory Alternate specimen: Plasma (EDTA purple top tube)
N-Telopeptide Cross Links <i>Formerly: Osteomark NTX Assay</i>	82523	Second-morning void or 24-hour urine. Refrigerate during collection. Collect without preservative. 1 mL required volume 0.5 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Tuesday – Saturday	1 – 4 days	For monitoring therapy, a baseline specimen should be collected prior to initiation of therapy. Subsequent specimens for comparison should be collected at the same time of day as the baseline specimen.
Nucleotidase-5'	83915	Serum SST, tiger top tube 2 mL required volume 0.2 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 - 3 days	Outside Reference Laboratory Allow specimen to clot completely at room temperature 30 minutes then separate serum from cells ASAP
Oak IgE	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory Unacceptable Specimen: Room Temperature
Oat Allergen <i>Formerly: Oat IgE</i>	86001	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume)	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory A

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
OB CBC w/Platelet	85027	1 – Lavender (EDTA) top tube 1 mL required volume	Ambient	<p>HCT – Hematocrit</p> <p>Female</p> <p>0 - 1 month.....51.0 - 65.0% 1month - 1 yr....37.0 - 52.0% 1 yr - 14 yr.....35.0 - 45.0% 14 yr - 19 yr.....36.0 - 47.0% 19 yrs–150 yrs .36.0 - 48.0%</p> <p>HGB – Hemoglobin</p> <p>Female</p> <p>0 - 1 month... 15.0 - 22.0 g/dl 1 mon - 1 yr... 10.0 - 12.0 g/dl 1 yr - 13 yrs....11.0 - 13.0 g/dl 13 yrs–150 yrs..12.0 - 16.0 g/dl</p> <p>MCH</p> <p>0 - 1 month.....33 – 37 g/dl 1 month - 1 yr. .27 – 31 g/dl 1 yr - 14 yrs.....27 – 33 g/dl 14yrs - 19 yrs...30 – 32 g/dl 19 yrs- 50 yrs . 26 – 34 g/dl</p> <p>MCHC</p> <p>0 - 1 month.... 28.3 - 33.5 g/dl 1 month - 1 yr. 28.7 - 37.0 g/dl 1 yr - 13 yrs....32.0 - 35.0 g/dl 13 yrs-150 yrs. 32.0 - 36.0 g/dl</p> <p>MCV</p> <p>Female</p> <p>0 - 1 month111 – 128 fl 1 month - 1 yr.....95 – 119 fl 1 yr - 13 yrs.....80 – 96 fl 13 yrs -78 – 98 fl</p> <p>RBC - Red Blood Cell Count</p> <p>Female</p> <p>0 - 1 month.... 4.26 - 5.7 million 1 month - 1 yr... 3.5 - 5.2 million 1 yr - 14 yrs..... 4.0 - 5.2 million 14 yrs - 19 yrs... 4.2 - 5.4 million 19 yrs – 150 yrs 4.6 - 5.4 million</p> <p>WBC - White Blood Cell Count</p> <p>0 - 1 month 5,000 - 30,000 /cumm</p>	Set up: 24 hours daily	Stat: 1 hour Routine: 4 hours	<p>Critical Values</p> <p>H Hematocrit</p> <p>Female</p> <p>0 - 1 month.....< 30, > 80% 1month - 1 yr.....< 20, > 59.9% 1 yr - 14 yr..... < 20, > 59.9% 14 yr - 19 yr..... < 20, > 59.9% 19 years – 150yrs ...< 20, > 59.9%</p> <p>Hemoglobin</p> <p>Female</p> <p>0 - 1 month..... < 10. >20 g/dl 1 month - 1 yr..... < 7.5, > 20 g/dl 1 yr - 13 yrs..... < 7.5, > 20g/dl 13 yrs – 150 yrs... < 7.5, > 20g/dl</p> <p>White Blood Count</p> <p>0 - 1 month..... <1, > 40 x10³mm³ 1 month - 1yr.....< 1, > 40 x10³mm³ 1 yr - 14 yrs.....<1, > 40 x10³mm³ 14 yrs - 19 yrs...<1, > 40 x10³mm³ 19 yrs - 15 yrs...<1, > 40 x10³mm³</p> <p>OB Platelets:</p> <p>< 49, > 1000 x10³mm³</p>

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
OB CBC w/Platelet -continued-				1 month – 1 yr 5,000 - 17,500 /cumm 1 yr - 14 yrs..... 5,000 - 12,500 /cumm 14 yrs - 19 yrs..... 4,500 - 11,000 /cumm 19 yrs – 4,500 - 10,300 /cumm OB Platelets: 150 – 500 x10 ³ mm ³			
OB Fibrinogen	85384	Collect specimen in a light blue (sodium citrate) tube. 1 mL required volume,	Ambient	203 – 428 mg/dl	Set up: 24 hours Daily	Stat: 1 hour Routine: 4 hours	Critical Value: < 250 mg/dl
OB Platelets	85049	1 – Lavender (EDTA) top tube 1 mL required volume	Ambient	150 – 500 x10 ³ /mm ³	Set up: 24 hours Daily	Stat: 1 hour Routine: 4 hours	
OB Therapeutic Magnesium	83735	Serum SST, tiger top tube 1.0 mL required volume (0.5 minimum volume)	Ambient	4 - 8 mg/dl	Set up: 24 hours daily	Stat: 1 hour Routine: 4 hours	Critical Value: > 8
Obstetric Panel (Pre-Natal Panel) See note below:	80055	1 – EDTA Tube (Lavender top tube) 1 – Pink top tube 2 -Serum: SST (red top tube) (All three tubes must be received in order to complete panel)	Refrigerate	See below for Reference Ranges of each test within the Obstetric Panel: Antibody Screen: Type and RH: Hepatitis B Surface Antigen Negative Rubella Immune or Non-Immune RPR Negative Complete Blood Count w/Diff HCT – Hematocrit Female 0 - 1 month.....51.0 - 65.0% 1month - 1 yr.....37.0 - 52.0%	Antibody Screen, Type and Rh, Complete Blood Count w/ Differential – 24 hours, daily Hepatitis B Surface Antigen and Rubella: 11:00 p.m. Monday-Thursday	Stat: 1 hour Routine: 4 hours 24 hours	Tests included in Obstetric Panel: Antibody Screen, Type and RH, Hepatitis B Surface Antigen, Rubella Antibody, RPR and Complete Blood Count with Differential. Critical Values Hematocrit Female 0 - 1 month.....< 30, > 80% 1month - 1 yr.....< 20, > 59.9% 1 yr - 14 yr..... < 20, > 59.9% 14 yr - 19 yr..... < 20, > 59.9% 19 years – 150yrs ...< 20, > 59.9% Hemoglobin Female 0 - 1 month..... < 10. >20 g/dl 1 month - 1 yr..... < 7.5, > 20 g/dl 1 yr - 13 yrs..... < 7.5, > 20g/dl

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
<p>If Antibody Screen is positive, Antibody Identification, Titer, and Antigen Typing will be performed at an additional charge (CPT code(s): 86870, 86886, 86905). If RPR screen is reactive, RPR Titer and FTA Confirmatory testing will be performed at an additional charge (CPT code(s): 86593, 86780). If Hepatitis B Surface Antigen is positive, confirmatory testing based on the manufacturer's FDA approved recommendations will be performed at an additional charge (CPT code(s): 87341).</p>				<p>1 yr - 14 yr.....35.0 - 45.0% 14 yr - 19 yr.....36.0 - 47.0% 19 yrs – 150 yrs .36.0 - 48.0%</p> <p>HGB – Hemoglobin Female 0 - 1 month....15.0 - 22.0 g/dl 1 month - 1 yr .10.0 - 12.0 g/dl 1 yr - 13 yrs....11.0 - 13.0 g/dl 13 yrs– 50 yrs..12.0 - 16.0 g/dl</p> <p>MCH 0 - 1 month..... 33 – 37 g/dl 1 month - 1 yr...27 – 31 g/dl 1 yr - 14 yrs.... 27 – 33 g/dl 14yrs - 19 yrs...30 – 32 g/dl 19 yrs- 150 yrs 26 – 34 g/dl</p> <p>MCHC 0 - 1 month....28.3 - 33.5 g/dl 1 month - 1 yr. 28.7 - 37.0 g/dl 1 yr - 13 yrs....32.0 - 35.0 g/dl 13 yrs-50 yrs. 32.0 - 36.0 g/dl</p> <p>MCV Female 0 - 1 month ... 111 – 128 fl 1 month - 1 yr....95 – 119 fl 1 yr - 13 yrs.....80 – 96 fl 13 yrs -78 – 98 fl</p> <p>RBC - Red Blood Cell Count Female 0 - 1 month... 4.26 - 5.7 million 1 month - 1 yr... 3.5 - 5.2 million 1 yr - 14 yrs..... 4.0 - 5.2 million 14 yrs - 19 yrs... 4.2 - 5.4 million 19 yrs – 150 yrs 4.6 - 5.4 million</p> <p>WBC - White Blood Cell Count 0 - 1 month 5,000 - 30,000 /cumm 1 month – 1 yr 5,000 - 17,500 /cumm 1 yr - 14 yrs.....</p>	<p>***** 3:00 p.m. Sunday</p> <p>RPR Sun-Thurs</p>	<p>24-48 hours</p>	<p>13 yrs – 150 yrs... < 7.5, > 20g/dl</p> <p>White Blood Count 0 - 1 month..... <1, > 40 x10³mm³ 1 month - 1yr.....< 1, > 40 x10³mm³ 1 yr - 14 yrs.....<1, > 40 x10³mm³ 14 yrs - 19 yrs...<1, > 40 x10³mm³ 19 yrs - 15 yrs...<1, > 40 x10³mm³</p>

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Obstetric Panel (Pre-natal Panel) -continued-				5,000 - 12,500 /cumm 14 yrs - 19 yrs..... 4,500 - 11,000 /cumm 19 yrs - 4,500 - 10,300 /cumm <u>LYMP – Lymphocytes</u> 0 – 1 month20 – 30% 1 month - 1 yr.....50 – 70% 1 yr – 13 yrs.....32 – 49% <13 yrs -18 – 42% <u>MONO – Monocyte</u> 0 – 1 month..... 8 – 12% > 1 month 4 – 12% <u>MORP – Morphology</u> <u>MYEL – Myelocytes</u> <u>NRBC – Nucleated Red Cells</u> <u>SEGS–Segmented Neutrophils</u> 0 – 1 month.....52 – 58% 1 month – 1 yr31 – 40% 1 yr – 14 yrs45 – 62% 14 yrs – 19 yrs45 – 65% 19 yrs –44 – 74%			
Occult Blood Screening General Lab	82270	Collect 3 cards of Occult blood over a period of three (3) days	Ambient	Negative	Set up: 24 hours daily	Stat: 1 hour Routine: 4 hours	
Occult Blood Medicare Screening	82270	Collect 3 cards of Occult blood over a period of three (3) days	Ambient	Negative	Set up: 24 hours daily	Stat: 1 hour Routine: 4 hours	
Occult Blood, Stool Guaiac (Stool for Blood)	82272	1 – 3 mL stool sample. Plastic container with lid or collection card (NO PVA). Leak proof container or collection card.	Refrigerate	Negative	Set up: 24 hours daily	< 1 hour	Patient Preparation: Patient should not receive vitamin C (ascorbic acid for 3 days prior to occult blood testing by guaiac. Vitamin C and antacids may cause false-negative guaiac tests. A high bulk, red meat free diet with

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
<p>Occult Blood, Stool Guaiac (Stool for Blood) -continued-</p>							<p>restriction of peroxidase-rich vegetables (turnips, horseradish artichokes, mushrooms, radishes, broccoli, bean sprouts, cauliflower, apples, oranges, bananas, cantaloupes, grapes), has been recommended for 72 hours prior to guaiac testing, and during testing, to decrease the incidence of false-positives.</p> <p>Therapeutic iron causes false-positives with guaiac test in >50% of healthy subjects. Alcohol and aspirin, especially together, and other gastric irritants (steroids, rauwolfia derivatives, all nonsteroidal anti-inflammatory drugs, and colchicine) should also be avoided.</p> <p>Social use of ethanol alone is unlikely to cause false-positive Hemocult results but therapeutic doses of aspirin will do so. Halogens and cimetidine can cause reactions with guaiac tests.</p> <p>Causes of Rejection Specimen contaminated with urine, improper container, specimen on outside of container.</p> <p>Limitations Most methods lack sensitivity to small amount of blood and might fail to detect slow rates of blood loss. When occult GI bleeding is suspected, at least three samples, preferably of separate bowel movements, should be submitted. Many substances and conditions interfere with guaiac tests. These are enumerated in the Patient Preparation section. If careful attention is given to maintenance of a low peroxidase diet, the test becomes a reasonable screening</p>

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Occult Blood, Stool Guaiac (Stool for Blood) -continued-							<p>test. Guaiac tests present a number of other problems. Acid pH, heat and dry stools lead to some false-negatives, while watery stools are more apt to test positive. Colorectal adenomas and carcinomas cause a relatively small minority of positive guaiac tests.</p> <p>Methodology Guaiac is a leuko-dye. The peroxidase-like activity of hemoglobin or nonspecific oxidants catalyze the reaction of peroxide and the chromogen ortho-toluidine to form blue oxidized ortho-toluidine.</p> <p>Additional Information Normal intestinal blood loss averages 2-2.5 mL. Hemocult begins to turn positive at approximately 5 mg hemoglobin/g stool, which is considered to be the upper limit of normal stool peroxidase activity.</p>
Oligoclonal Bands CSF	83916	Collect a specimen of CSF and Serum. 1 mL required volume for each specimen	Refrigerate	See Report or Scanned Document	Set up: Monday – Saturday	2 - 3 days,	<p>Outside Reference Laboratory 1mL of CSF and Serum. It is preferred that the collection date and time be the same for both the CSF and Serum. Client can draw serum up to 48 hours after the CSF tap, however it is not recommended</p>
Olive Allergen <i>Formerly; Black Olive IgE</i>	86003	Serum, SST, tiger top tube 1 mL required volume 0.2 minimum volume	Refrigerate	See Report or Scanned Document	Set up: Monday – Friday	2 - 4 Days	<p>Outside Reference Laboratory</p>
Onion IgE	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Monday – Friday	2 - 4 days	<p>Outside Reference Laboratory</p>
Opiates Group	G0479	Random urine	Ambient	Negative	Set up: 24 hours, daily	Stat: 30 minutes Routine: 4 hours	

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Orange IgE Allergen	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 – 4 days	Outside Reference Laboratory Unacceptable Specimen : Room Temperature
Orange Citrus Allergen IgG	86001	Serum SST, tiger top tube 2 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	Outside Reference Laboratory
Oregano Allergen <i>Formerly: Oregano IgE</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Organic Acids Urine <i>Formerly: Organic Acids, Quantitative, Random Urine</i>	83918	Urine, Random 10 mL required volume 3.0 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	4 - 7 days	Outside Reference Laboratory Freeze urine as soon as possible after collection. Avoid dilute urine when possible.
Organism Identification	87081	Viable Isolated Organism	Ambient	<i>See Report or Scanned Document</i>	Set up: Daily	5 days	Outside Reference Laboratory
Osmolality, 24 Hour Urine	83935	Urine, Random 1 mL required volume 0.52 mL minimum volume 2	Frozen	430 – 1630 mOsm/kg	Set up: Sunday – Saturday	24 hours	
Osmolality, Serum	83930	Serum: SST red top tube	Refrigerate	275 – 295 mOsm/kg	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	
Osmolality, Urine	83935	Random urine 10 mL required volume 5 mL minimum volume	Refrigerate	38 – 1400 mOsm/kg	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	
Osmotic Fragility, Erythrocyte <i>Formerly: Osmotic Fragility, Erythrocyte</i>	85555	Whole Blood, Sodium Heparin green top tube, no gel. Alternate: Whole Blood EDTA Lavender top tube	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday - Friday	2 – 5 days	Outside Reference Laboratory Collect only Monday through Thursday Only. 5mL Sodium Heparin Whole Blood Non-Gel Tube or EDTA Whole Blood collected Non-Gel Tube (Lithium no-gel Green top is acceptable),

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Osmotic Fragility, Erythrocyte		Alternate: Whole Blood Lithium Heparin dark green top tube, no gel. 5 mL required volume 1 mL minimum volume					PLUS Two unfixed blood smears. Specimens should be refrigerated within 30 minutes after collection..! Do not transfer blood to other containers. Samples must be received at RML within 24 hours of collection; testing must be performed within 72 hours of collection
Osteomark NTX Assay <i>See: N-Telopeptide Cross Links</i>							
Osmolality Stool <i>Formerly: Fecal Osmolality</i>	84999	Stool, Random Collect in stool specimen container 5 mL required volume 0.5 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	3 – 4 days	Outside Reference Laboratory Specimen must be in liquid form. Do not add saline or water to liquefy sample. Transfer 5 mL liquid stool to an unpreserved stool transport vial and freeze. CRITICAL FROZEN. Separate specimens must be submitted when multiple tests are ordered.
Ova and Parasite	87177 87209	5 – 10 mL – diarrhea stool; fresh or ECOFIX vial.	Refrigerate	"No Ova or Parasites Seen"	Set up: Sunday – Saturday	3 - 7 days	Outside Reference Laboratory The quantitative O and P is ordered only after the screen for Giardia / Crypto is negative. Include information on recent travel, exposure or immuno compromised patient if appropriate.
Oxalate <i>Formerly: Oxalate, Blood (Serum or Plasma)</i>	83945	Plasma. EDTA Lavender top tube, Alternate: Serum Collected in plain Red top tube, no Gel. 1 mL required volume 0.7 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Wednesday	2 – 8 days	Outside Reference Laboratory Do not use Gel Separation tubes. Promptly centrifuge and separate Serum or Plasma into a plastic screw capped aliquot tube and Freeze Immediately

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
<p>Oxalate, Total Urine</p> <p><i>Formerly: Oxalate, Urine (24 Hour or Random)</i></p>	<p>83945 82570</p>	<p>24 hour urine collections should be collected in a 24 hour urine container with no preservatives Alternate: Random Urine Collect in sterile container 4 mL required volume 1.5 mL minimum volume</p>	<p>Frozen</p>	<p><i>See Report or Scanned Document</i></p>	<p>Set up: Monday - Friday</p>	<p>2 – 5 days</p>	<p>Outside Reference Laboratory Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient's full name, medical record number, room number; date and time collection started and date and time collection finished. Outpatient Collection: Container must be labeled with patient's full name and date of birth; date and time collection started and date and time collection finished.</p> <p>Patient Preparation: Patient should avoid ingestion of vitamin C prior to collection.</p> <p>Refrigerate during collection. Thoroughly mix entire collection (24-hour or random) in one container. Transfer 4mL(1.5mL) aliquot from the well-mixed Random or 24-hour urine collection to a Standard Urine Transport Tube and Freeze immediately after aliquoting. Do not exceed 4 mL in tubes. Record total volume and collection time interval on transport tube and test request form. This information is required for test interpretation. CRITICAL FROZEN. Separate specimens must be submitted when multiple tests are ordered.</p>

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Oxcarbazepine 10-OH Metabolite Level <i>Formerly: Oxcarbazepine as Metabolite</i>	80183	Serum, Plain red top tube. No gel. 1 mL required volume 0.5 mL minimum volume	Refrigerate or Frozen	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 – 3 days	Outside Reference Laboratory Timing of specimen collection: Pre-dose (trough) draw - At steady state concentration. Please collect a Red Non-Gel clot tube. Separate serum or plasma from cells within 2 hours of collection. Specimen stability: Ambient: 6 weeks; Refrigerated: 6 weeks; Frozen: 3 months (avoid repeated freeze/thaw cycles). Unacceptable Conditions: Whole blood. Gel separator tubes, light blue (citrate), or yellow (SPS or ACD solution).
Oyster Allergen <i>Formerly: Oyster IgE</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Pancreatic Elastase 1 Stool <i>Formerly: Pancreatic Elastase , Fecal</i>	83520	Stool, random specimen Collected in a sterile screw top container. 5 g required volume 1 g minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Sunday, Tuesday – Friday	2 – 5 days	Outside Reference Laboratory Interruption of enzyme substitution therapy recommended in order to avoid the possibility of cross-reaction with porcine enzymes. Transfer 5 g stool to an unpreserved stool transport vial. Unacceptable Conditions: Stool in media or preservative. Swabs
Paperwasp Allergen <i>Formerly: Paper Wasp IgE</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Ambient	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Parasite Rapid Screen	87328 87329	Stool, random specimen Collect specimen in Formalin and PVA container	Ambient	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	1 - 3 days	Outside Reference Laboratory Stool in formalin screwtop container . Formalin can be added to fresh (undiluted), refrigerated specimens up to 72 hours old; formalin can be added to room temperature fresh (undiluted) specimens up to 8 hours old. Testing should be performed with in 1 month.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Parsley IgE	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Parvovirus B19 PCR, Qualitative <i>Formerly: Parvovirus B19 DNA Qualitative PCR</i>	87798	Plasma, EDTA Lavender top tube, Alternate: Serum, SST tiger top tube Alternate: Fluid collected in sterile capped plastic tube 1 mL required volume 0.25 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	1 – 4 days	Outside Reference Laboratory Please indicate source on specimen. Plasma or Serum - Centrifuge specimen within 3 hours of collection, separate and freeze immediately. CSF, bronchoalveolar lavage (BAL), ocular fluid, amniotic fluid, or synovial fluid collected aseptically per established clinical procedure, placed in a sterile plastic tube and frozen. Do not allow freeze-thaw cycle to occur. Fresh tissue, snap frozen, acceptable on dry ice.
Parvovirus B19 PCR, Quantitative <i>Formerly: Parvovirus B19 DNA Quantitative PCR</i>	87799	Collect amniotic fluid or amniotic fluid supernatant in plastic leak proof container. 1 mL required volume 0.3 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Daily	1 – 4 days	Outside Reference Laboratory Plasma collected in a PPT (white-top), ACD (yellow-top) or EDTA (lavender-top) tube • Serum • Whole blood or bone marrow collected in an ACD (yellow-top) or EDTA (lavender-top) tube. Reject Criteria Heparinized specimens • Frozen whole blood • Frozen bone marrow
Parvovirus B19 Antibodies IgG & IgM	86747 x2	Serum, SST, tiger top tube Alternate: Plasma EDTA Lavender top tube Alternate: Plasma Lithium Heparin green top tube 0.5 mL required volume 0.3 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 – 4 days	Outside Reference Laboratory Separate serum or plasma from cells into plastic aliquot tube ASAP or within 2 hours of collection. Please mark specimen plainly as "acute" or "convalescent." (Acute and convalescent specimens must be labeled as such; parallel testing is preferred and convalescent specimens must be received within 30 days from receipt of the acute specimens.) Unacceptable: Heat-inactivated, hemolyzed, hyperlipemic, icteric, or contaminated serum specimens.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Pea Allergen	86003	Serum SST, tiger top tube 1 mL required volume 0.5 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 – 4 Days	<i>Outside Reference Laboratory</i> Unacceptable specimen at room temperature.
Peach Allergen <i>Formerly: Peach IgE</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i> Unacceptable specimen at room temperature.
Peanut IgE	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i> Unacceptable: Room Temperature
Peanut Component Panel	86003 X5	Serum, SST, tiger top tube 1.5 mL required volume 1.0 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	<i>Outside Reference Laboratory</i>
Peanut Allergen IgG	86001	Serum, SST, tiger top tube 2 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	<i>Outside Reference Laboratory</i>
Pear Allergen <i>Formerly: Pear IgE</i>	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i> Unacceptable: Room Temperature
Pecan IgE	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i> Unacceptable: Room Temperature
Pecan Nut IgE	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i> Unacceptable: Room Temperature
Penicillin G Allergen	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 – 4 days	<i>Outside Reference Laboratory</i>

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Penicillin V Allergen	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 – 4 days	<i>Outside Reference Laboratory</i>
Penicillium Chrysogenum Allergen <i>Formerly: Penicillium Notatum IgE</i>	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 – 4 days	<i>Outside Reference Laboratory</i> Unacceptable specimen at room temperature.
Pepper Bell/Paprika (Capsicum Annum) IgG	86003	Serum, SST, tiger top tube 0.3 mL required volume 0.15 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	<i>Outside Reference Laboratory</i>
Pepper, Chili Allergen <i>Formerly: Chili Pepper IgE</i>	86003	Serum, SST, tiger top Tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i>
PCB Panel (Polychlorinated Biphenyls)	82441	Whole Blood, EDTA (Lavender top tube) 4 mL required volume 1.2 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Varies	5 – 12 days	<i>Outside Reference Laboratory</i> Transport in glass tube.
pH, CSF	83986	Collect 0.5 mL in CSF Tube	Refrigerate	<i>Interpretive Data</i>	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	
pH, Urine	81003	5 – 10 mLs of random urine	Refrigerate	5.0 – 7.0	Set up: 24 hours, daily	Stat: 30 minutes Routine: 4 hour	
pH, Whole Blood	82800	Whole Blood: Heparin green top tube	Refrigerate	7.35 – 7.45	Set up: 24 hours, daily	15 minutes	Critical Values: < 7.21, > 7.59
pH, Body Fluid	83986	Body fluids: 5 mL required volume	Refrigerate	Interpreted with clinical findings	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	Indicate source of body fluid.
Phencyclidine (PCP)	80301 G0479	Random urine	Ambient	Negative	Set up: 24 hours, daily	Stat: 30 minutes Routine: 4 hours	

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Phenobarbital Level	80184	Serum, SST tiger top tube 1 mL required volume	Refrigerate	15.0 – 40.0 µg/mL	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	Critical Value: > 45.0 µg/mL
Phenosens GT See: HIV Penotype Comprehensive	87906 87903 87904 X11	See instructions Collect 2 tubes using EDTA PPT – white top tube or Collect 2 tubes using EDTA Lavender top tubes	Frozen	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	14 – 18 days	Outside Reference Laboratory Draw blood in draw 2 PPT tubes centrifuge within 2 hours of collection or 2 EDTA Lavender top tubes centrifuge within 2 hours of collection. Centrifuge at 1000-1200 xg at room temperature for 10-15 min. Separate plasma from cells. If PPT used, okay to centrifuge. DO NOT pour off or aliquot. Freeze entire tube after centrifuging immediately in a polyethylene tube. NOTE: Value of most recent viral load and Date of viral load should be submitted it with the specimen. Ship specimen frozen on dry ice. Do not thaw.
Phenytoin, Free and Total <i>Formerly: Phenytoin, Unbound</i>	80185 80186	Serum, Plain Red top tube 2 mL required volume 1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Tuesday – Saturday	2 – 5 days	Outside Reference Laboratory Timing of specimen collection: Pre- dose (trough) draw - At steady state concentration. Separate serum from cells within 2 hours of collection. Unacceptable Conditions: Citrated plasma. Serum separator tubes (SST). Tubes that contain liquid anticoagulant
Phenol, Urine, Random	84600 82570	Urine, Random 10 mL	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Varies	4 - 11days	Outside Reference Laboratory
Phenolphthalein, Stool	84311	Stool specimen 10 g required volume 5 g minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday	7 – 14 days	Outside Reference Laboratory
Phenylethylmalonamide (Mysoline, Primidone)	80188 80184	Collect specimen in a red top tube , Also acceptable: green (sodium heparin) 1 mL required volume 0.8 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	24 hours	Outside Reference Laboratory

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Phenytoin, Free	80186	Collect Serum specimen in a Plain red top tube. 2 mL required volume 1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Tuesday - Saturday	1 – 4 days	Outside Reference Laboratory Alternate specimen: NONE. NO SST TUBES.
Phosphorous, 24 Hour Urine	84105	24 hour urine collections should be collected in a 24 hour urine container with no preservatives	Refrigerate	Interpretation based on clinical findings.	Set up: 7:00 a.m., daily	24 hours	Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient's full name, medical record number, room number; date and time collection started and date and time collection finished. Outpatient Collection: Container must be labeled with patient's full name and date of birth; date and time collection started and date and time collection finished.
Phosphorus, Inorganic	84100	Collect Serum in SST tube. 0.5 mL required volume	Refrigerate	0 yrs to 16 yrs – 4.5 – 6.5 mg/dl 16 yrs to 150 yrs – 2.7 – 4.5 mg/dl	Set up: Daily	Stat: 1 hour Routine: 4 hours	Critical Values: 1 yrs – 16 yrs - < 1.1 mg/dl 16 yrs – 150 yrs- < 1.1 mg/dl
Phosphorus, Inorganic Urine	84105	Random urine collection 10 mL required volume	Ambient	<i>Interpretive Data</i>	Set up: 24 hours daily	Stat: 1 hour Routine: 4 hours	
Phosphorous, Random Urine	84105	Random urine 5 – 10 mLs	Refrigerate	<i>Interpretive Data</i>	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	
Pinworm Prep	87172	Collect perianal material .	Refrigerate	<i>Interpretive Data</i>	Set up: Sunday – Saturday	24 hours	Pathologist review

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Pistachio Allergen <i>Formerly: Pistachio IgE</i>	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory Unacceptable: Room Temperature
Placenta Culture Order Anaerobic Culture and an Aerobic Culture with Gram Stain		Tissue or Anaerobic culturette and Aerobic culturette.	Ambient	"No Growth at 3 days"	Set up: 24 hours, daily	Final report at 4 days. Preliminary reports issued daily.	Significant pathogens identified with susceptibility.
Plasminogen Act Inhibitor, Activity Genotype <i>Formerly: Plasminogen Activator Inhibitor-1 Genotype (Pal-1)</i>	81400	Whole Blood, EDTA Lavender top tube 5 mL required volume 1 mL minimum volume	Ambient	<i>See Report or Scanned Document</i>	Set up: Monday, Thursday	8 - 11 days	Outside Reference Laboratory
Plasminogen Functional <i>Formerly: Plasminogen Activity</i>	85420	Plasma, Sodium Citrate 3.2% light blue top tube 2 mL required volume 1 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Tuesday	3 days	Outside Reference Laboratory Each 2.7mL Sodium Citrate 3.2% (Blue Top) tube must be filled to the proper level, no hemolysis. Improperly filled tubes can give erroneous results. The specimen must be double spun then aliquot 2.0 mL plasma into individual aliquot tubes and freeze. Specimen Stability: Frozen 30 days. Rejection Criteria: Hemolysis, received at room temperature, received refrigerated.
Platelet Autoantibody <i>Formerly: Platelet Antibodies</i>	86022	Whole Blood, EDTA Lavender Top tube 5 mL required volume 3 mL minimum volume	On Ice Do not Freeze	<i>See Report or Scanned Document</i>	Set up: Monday – Thursday	2 – 3 days	Outside Reference Laboratory Due to specimen integrity and stability reasons, it is highly suggested this should be collected at the RML Main Laboratory - Monday through Thursday..! Testing must begin within 24hrs. Please make this a Separate

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Platelet Autoantibody <i>-continued-</i>							Specimen, Do not share this specimen with other testing. Keep specimen as Whole Blood and On-ICE..! Do Not Centrifuge! Transport specimen directly to Lab Section ASAP On-ICE but Do Not Freeze! (Note: Special processing of the sample will be performed within the performing laboratory section. Hemolyzed, Icteric and Lipemic specimens will yield false results and will not be tested.)
Platelet Antibodies Indirect <i>Formerly: Platelet Antibody IgG, Indirect change:</i>	86022	Serum, SST tiger top tube 1 mL required volume 0.5 minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday – Saturday	1 – 3 days	Outside Reference Laboratory
Platelet Count	85049	Collect specimen in Lavender (EDTA) top tube. 1 mL: required volume	< 8 hours Ambient > 8 hours Refrigerate	150,000 – 500,000/ cumm	Set up: 24 hours, daily	Stat – 1 hour Routine – 2 hours	Tube must be half full and not clotted. Critical Value: < 20,000, > 1 million /cumm Platelet count decrease of 50% within a 14 day period. OB Platelets – Less 50 x 10³/mm³, Greater than 1000 x 10³/mm³
Platelet Function Confirm	85576	Blue container Call the lab before drawing specimen	Refrigerate	56 – 104 seconds	Set up: 24 hours, daily	Stat – 1 hour Routine – 2 hours	
Platelet Function Screen	85576	2 – blue tubes drawn Call Lab	Refrigerate	73 – 161 seconds	Set up: 24 hours, daily	Stat – 1 hour Routine – 2 hours	
Platelet Antibody, Bound & Free (Direct and Indirect)	86022	EDTA, 4 mL required volume 1 mL minimum volume	Ambient	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday p.m.	2 – 3 days	Outside Reference Laboratory Alternate specimen: NONE . Do not refrigerate or freeze.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Platelet Antibody, Drug Heparin Induced	86022	Blue top tube, Spun, Poured, off Frozen	Frozen	See Report or Scanned Document	Set up: Monday – Friday	1 day	Outside Reference Laboratory
Platelet Antibody IgG, Indirect	86022	Serum separator tube (SST) 1 mL required volume	Frozen	See Report or Scanned Document	Set up: Monday – Saturday	4 days	
Platelet Function Analysis Confirmation Call Hematology @ 615-2845570 prior to collection of specimen.	85576	Blue top tube Using a 21 gauge or larger needle, blood should be drawn directly into an evacuated plastic or siliconized glass tube or syringe containing 3.2% (0.105M) buffered sodium citrate. (1 part anticoagulated to 9 parts blood.)	Room Temperature Up to 4 hours	The following ranges should only be used as a guide for interpretation together with other clinical signs and symptoms. Collagen/Epinephrine Mean (Seconds): 132 Reference Interval Seconds: 94 - 193 ----- Collagen/ADP Mean (Seconds): 92 Reference Interval Seconds: 71 - 118	Set up: 24 hours daily	Stat – 1 hour Routine – 2 hours	Note: Use of unbuffered sodium citrate anticoagulant is not recommended. After specimen collection ensure proper mixing of anticoagulant by gently inverting the tube by had 3-4 times. Discard the sample if there is a venous collapse or stoppage of blood flow during collection. Note: Do not use hemolyzed samples.
Pneumococcal Antibody IgG, 23 Formerly: Pneumococci Antibody IgG	86317 X14	Serum, SST tiger top tube 1.5 mL required volume 0.5 mL minimum volume)	Refrigerate	See Report or Scanned Document	Set up: Tuesday – Friday	2 – 5 days	Outside Reference Laboratory The preferred specimens are Pre- and Post- vaccination sera run in parallel. Tubes should be clearly marked as "Pre" or "Post". A pre-and post-vaccination sample comparison is required in order to assess the humoral immune response to vaccination with Streptococcus pneumoniae vaccine. Post vaccination samples should be obtained at 4 weeks post-immunization
Flow PNH Panel Paroxysmal Nocturnal Hemoglobinuria (PNH) (CLEAR) Formerly: PNH Flow Panel	88184 88187 88185 X4	Whole Blood, EDTA Lavender top tube 5 mL minimum volume 3 mL required volume Allternate: Bone Marrow EDTA Lavender top tube 5 mL required volume 1 mL minimum volume)	Ambient	See Report or Scanned Document	Set up: Monday – Saturday	2 – 4 days	Outside Reference Laboratory For Best Stability - Collect Monday through Thursday! Send specimen to RML main laboratory ASAP on the same day of collection to maintain optimal stability! (Specimens received at RML Main Laboratory after Noon on Friday will not reach the performing lab within stability.)

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Flow PNH Panel Paroxysmal Nocturnal Hemoglobinuria (PNH) (CLEAR) -continued-							Keep at room temperature! (DO NOT FREEZE). Frozen samples will be rejected. (Sodium or Lithium Heparin No-Gel and Yellow ACD tubes are also acceptable) Stability: Room temperature 48hrs, Refrigerated 48hrs, Frozen N/A.
Polychlorinated Biphenyls	82441	Collect serum or plasma, Plain Red , Lavender (EDTA) or Pink (K ₂ EDTA) 2 mL required volume 0.7 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Varies	5 – 12 days	Outside Reference Laboratory
Pork IgE	86003	Serum SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 -4 days	Outside Reference Laboratory Unacceptable: Room Temperature
Porphobilinogen, Quantitative Urine <i>Formerly:</i> <i>Porphobilinogen, Quantitative 24 Hour Urine</i>	84110 82570	Random Urine Collect in sterile urine container Alternate: Urine, 24 hours Collect in 24 hour urine container. 24 hour urine collections should be collected with no preservatives. 8 mL required volume 3.5 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 – 5 days	Outside Reference Laboratory Protect from light: Foil wrap. Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient's full name, medical record number, room number; date and time collection started and date and time collection finished. Outpatient Collection: Container must be labeled with patient's full name and date of birth; date and time collection started and date and time collection finished. Collect: 24-hour or Random urine. Refrigerate 24-hour specimens during collection.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Porphobilinogen, Quantitative Urine -continued-							Protect from light. Transfer 8mL(3.5mL) aliquot to a Amber Transport Tube. Record total volume and collection time interval on transport tube and test request form. Storage/Transport Temperature: Frozen. Unacceptable Conditions: Body fluids other than urine. Stability: Ambient: Unacceptable; Refrigerated: 4 days; Frozen: 1 month.
Porphobilinogen, Quantitative Random Urine See above	84110	Urine, Random 8 mL required volume 3.5 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday - Friday	1 - 4 days	Outside Reference Laboratory Protect from light: Foil wrap.
Porphyrins, Fractionated, Feces	84126	Random stool collection. 5 g of stool	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday, Thursday	2 – 7 days	Protect from light.
Porphyrins, Total,	84311	Serum, Plain red top tube, no gel 2 mL required volume 1 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Sunday , Tuesday, Thursday	2 – 5 days	Outside reference Laboratory
Porphobilinogen Quantitative Urine (Random or 24 Hour Urine) <i>Formerly: Porphyrins, Quantitative and Fractionated, 24 hour Urine</i>	84110 82570	Random Urine Collect in sterile urine container Alternate: Urine, 24 hours Collect in 24 hour urine container. 24 hour urine collections should be collected with no preservatives. 8 mL required volume 3.5 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 – 5 days	Outside Reference Laboratory Collect: 24-hour or Random urine. Refrigerate 24-hour specimens during collection. Protect from light. Transfer 8mL(4mL) aliquot to a Amber Transport Tube. Record total volume and collection time interval on transport tube and test request form. Storage/Transport Temperature: Frozen. Unacceptable Conditions: Body fluids other than urine. Stability: Ambient: Unacceptable; Refrigerated: 4 days; Frozen: 1 month.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
<p>Porphyrins and Porphobilinogen (Random and 24 hour)</p> <p>Formerly: Porphyrins, Fractionated 24 Hour Urine</p>	<p>84120 84110 82570</p>	<p>Random Urine Collect in sterile urine container</p> <p>Alternate: Urine, 24 hours Collect in 24 hour urine container. 24 hour urine collections should be collected with no preservatives.</p> <p>8 mL required volume 4 mL minimum volume</p>	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	1 – 5 days	<p>Outside Reference Laboratory Protect from light: Foil wrap. Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory.</p> <p>Inpatient Collection: Container must be labeled with patient's full name, medical record number, room number; date and time collection started and date and time collection finished.</p> <p>Outpatient Collection: Container must be labeled with patient's full name and date of birth; date and time collection started and date and time collection finished. Collect: 24-hour or Random urine. Refrigerate 24-hour specimens during collection.</p> <p>Protect from light. Transfer 8mL(4mL) aliquot to a Amber Transport Tube. Record total volume and collection time interval on transport tube and test request form. Storage/Transport Temperature: Frozen. Unacceptable Conditions: Body fluids other than urine. Stability: Ambient: Unacceptable; Refrigerated: 4 days; Frozen: 1 month.</p>
<p>Porphyrins, Fractionated Random Urine</p>	84120	<p>Random urine. Refrigerate during collection. Urine, Random 4 mL required volume 2 mL minimum volume</p>	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday - Friday	1 – 5 days	<p>Outside Reference Laboratory Protect from light: Foil wrap.</p>

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Post Vasectomy Semen Analysis	89320	Collect semen. It should be received in the lab 30 minutes after collection and should be kept warm at 37°C.	37°C	No sperm seen.	Set up: Monday – Friday	Stat: 1 hour Routine: 4 hours	
Potassium, Serum	84132	Plasma: Lithium Heparin – green top tube Serum: SST red top tube	Refrigerate	Male: 0 - 1 month: 4 – 5.9 mmols/L 1 month – 150 yrs: 3.4 – 5.1 mmols/L Female: 0 - 1 month: 4 – 5.9 mmols/L 1 month – 150 yrs: 3.4 – 5.1 mmols/L	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	Critical Value: Male: 0 – 1 Month: ... <3, > 5.9 mmol/L 1 Month –150 yrs .< 3, > 5.8 mmol/L. Female: 0 – 1 Month: <3, > 5.9 mmol/L 1 Month – 150 yrs...< 3, > 5.8 mmol/L.
Potassium, 24 Hour Urine	84133	24 hour urine collections should be collected in a 24 hour urine container with no preservatives 10 mL required volume 5 mL minimum volume	Refrigerate	Potassium, 24 Hour Urine 1.0 – 3.0 grams / 24 hours Creatinine – 24 Hour Urine Male: 0.6 – 2.5 g/24hrs Female: 0.6 – 2.5 g/24hrs	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient’s full name, medical record number, room number; date and time collection started and date and time collection finished. Outpatient Collection: Container must be labeled with patient’s full name and date of birth; date and time collection started and date and time collection finished.
Potassium, Body Fluid	84133	1 mL body fluid in a sterile container. Note location of body fluid.	Refrigerate	<i>Interpretive Data</i>	Set up: 24 hours daily	Stat: 1 hour Routine: 4 hours	

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Potassium Stool <i>Formerly: Potassium, Feces</i>	84999	Fecal Stool 5 g required volume Collected in orange-screw top container	Frozen	<i>See Report or Scanned Document</i>	Set up: Tuesday, Thursday	5 days	Outside Reference Laboratory Random or 24 hour collection of feces. Send entire collection sample in a plastic leak-proof container with screw cap. Submit a well-mixed timed stool collection. Record total collection time (Random, 24, 48, or 72 hours). Keep refrigerated during collection. Do not submit specimen in metal paint cans, as processing poses a safety hazard. Specimens received in paint cans will be rejected. Unacceptable Specimens: Formed or viscous stool.
Potassium, Random Urine	84133	Random urine 10 mL required volume 5 mL minimum volume	Refrigerate	<i>Interpretive Data</i>	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	
Potato Allergen	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory Unacceptable: Room Temperature
White Potato Allergen IgG <i>Formerly: Potato IgG</i>	86001	Serum, SST, tiger top tube 1 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	Outside Reference Laboratory
Prealbumin	84134	Serum: SST red top tube	Refrigerate	20 – 40 mg/dl	Set up: 7:00 a.m. – 11:00 p.m. daily	Stat: 1 hour Routine: 4 hours	
Pregnancy, Serum Qualitative	84703	Serum: SST red top tube	Ambient	Normal males and Non-Pregnant Females: Negative Normal Pregnant Females: Positive	Set up: 24 hours, daily	30 minutes	

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Pregnancy, Urine, Qualitative	84703	Collect a random urine – first morning specimen is preferred. 10 mL required volume 5 mL minimum volume	Refrigerate	<i>Interpretive Data</i>	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	
Primidone Level	80188	Serum, Collected in Red top tube, no gel. Alternate: Plasma Sodium heparin green top tube – no gel. 1 mL required volume 0.8 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 – 3 days	Outside Reference Laboratory Collect just prior to next dose. Collect: Plain red. Also acceptable: Green (sodium heparin). Allow serum to clot completely at room temperature. Separate serum from cells within 2 hours of collection. Unacceptable Conditions: Separator tubes.
Pro-BNP N-terminal	83880	Plasma EDTA Lavender top tube 1 mL required volume 0.3 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 – 6 days	Outside Reference Laboratory Alternative Specimens: Plasma: EDTA Royal Blue, Potassium EDTA, Sodium heparin, Lithium heparin or Serum. Separate plasma as soon after collection as possible. Keep refrigerated (cold packs) after separation. Specimen Stability: Room Temperature 72 hours, Refrigerated 5 days, Frozen 1 year. Rejection Criteria: gross hemolysis.
Procalcitonin Level	84145	Serum SST, tiger top tube Alternate: Plasma EDTA Lavender top tube Alternate: Plasma Lithium Heparin PST, light green top tube 2 mL required volume 0.5 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 – 3 days	Outside Reference Laboratory The same specimen type (serum, plasma) should be used throughout the patient's clinical course. Collect: Plasma separator tube or serum separator tube. Allow serum to sit for 15-20 minutes for proper clot formation and to ensure the absence of fibrin in the serum which can interfere with this assay. Separate serum or plasma from cells within 2 hours of collection. Unacceptable Conditions: Specimens collected in citrate anticoagulant.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Progesterone Level, Serum	84144	Serum, SST, tiger top tube 1 mL required volume 0.5 minimum volume	Refrigerate	Males: 0.28 – 1.22 ng/mL Normal Females: Follicular Phase – 0.15-1.40 ng/mL Luteal Phase – 3.34-25.56 ng/mL Mid Luteal Phase – 4.44-28.03 ng/mL Post Menopausal – 0 – 0.73 Pregnant 1 st Trimester – 11.22 – 90.00 2 nd Trimester – 25.55 – 89.40 3 rd Trimester – 48.40 – 422.50	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	
Progesterone Ultra-Sensitive <i>Formerly: Progesterone, LC/MS/MS</i>	84144	Serum, Plain Red top tube, no gel. Alternate: Plasma Lavender top tube Alternate: Plasma Sodium Heparin, green top tube. 1 mL required volume 0.2 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Sunday – Saturday	2 – 5 days	Outside Reference Laboratory Recommended for children 12 years and under. Unacceptable Conditions: Grossly hemolyzed specimens.
Proinsulin, Intact <i>Formerly: Proinsulin Level</i>	84206	Serum, SST, tiger top tube, Alternate: Plasma EDTA Lavender top tube. 1 mL required volume 0.2 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Tuesday, Thursday	2 – 7 days	Outside Reference Laboratory Patient must fast 12-15 hours before collection. Allow serum to clot then separate serum or plasma from cells ASAP and keep refrigerated or frozen. If frozen avoid repeated freeze-thaw cycles.
Prolactin Level	84146	Serum: SST red top tube 0.5 mL required volume	Refrigerate	Male: 2.1 – 17.7 ng/mL Female: Non-pregnant: 2.8-29.2 Pregnant: 9.7-208.5 Postmenopausal: 1.8 – 20.3	Set up: 24 hours, daily	24 hours	
Procainamide/ NAPA Levels <i>Formerly: Pronesty Level with Metabolite</i>	80192	Serum, Plain Red top, no gel Alternate; Plasma Sodium Heparin, green top tube 1 mL required volume 0.5 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Monday – Sunday	2 – 3 days	Outside Reference Laboratory Do not use gel barrier tubes! Serum from Red No-Gel clot tube is preferred specimen. Plasma from EDTA or Sodium Heparin No-Gel tubes are acceptable

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Propranolol Level (Inderal)	G0479	Serum (Plain red top tube) 3 mL required volume 1.5 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday, a.m.	3 days	Outside Reference Laboratory Alternate specimen: NONE. NO SST TUBES.
PSA Free and Total <i>Formerly: Prostate Specific Antigen, Total and Free</i>	84153 84154	Serum, SST, tiger top tube 2 mL required volume 1 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	2 – 4 days	Outside Reference Laboratory Collect prior to biopsy, prostatectomy, prostatic massage or digital rectal exam. Allow 30min. for specimen to clot then aliquot serum and freeze Immediately
Prostate Specific Ag – Total	84153	Serum: SST red top tube 5 mL required volume	Refrigerate	0 – 4.0 ng/mL	Set up: 24 hours, daily	24 hours	
Prostate Specific Antigen –Total Medicare Screening	G0103	Serum: SST red top tube 5 mL required volume	Refrigerate	0 – 4.0 ng/mL	Set up: 24 hours, daily	24 hours	Screening PSA for Medicare beneficiaries only. Order PSA Medicare Screen for yearly test.
Protease 3 Antibody	83516	Serum, SST tiger top tube 1 mL required volume 0.2 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	1 – 2 days	Outside Reference Laboratory Unacceptable Conditions Plasma, urine, or other body fluids. Contaminated, hemolyzed, or severely lipemic specimens.
Protein C Functional <i>Formerly: Protein C Activity</i>	85303	Whole blood, Sodium Citrate, blue top tube Alternate: Double Spun Plasma In Steele Capped Plastic tube	Whole Blood shipped Refrigerate Plasma Shipped frozen	<i>See Report or Scanned Document</i>	Set up: Tuesday, Thursday	2 - 4 day	Outside Reference Laboratory Please indicate anticoagulant therapy. Collect Two 2.7mL Sodium Citrate 3.2% (Blue Top) tubes. Each 2.7mL Sodium Citrate 3.2% (Blue Top) tube must be filled to the proper level, no hemolysis. Improperly filled tubes can give erroneous results. Whole blood must be transported to lab immediately. If testing cannot be started within 4 hours of collection the specimen must be double spun then 1.5mL plasma aliquot from each tube into individual plastic aliquot tubes and freeze. Do not pool aliquots together!

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Protein C Antigen	85302	Whole blood, Collect in Sodium Citrate Blue top tube, Alternate: Double Spun Plasma in a sterile, capped plastic tube.	Ambient whole blood, Frozen aliquotes	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	2 – 3 days	Outside Reference Laboratory Please indicate anticoagulant therapy. Tubes must be filled to the proper level, no hemolysis. Improperly filled tubes can give erroneous results. Whole blood must be transported to lab immediately. If sending citrated plasma aliquots, they must be double spun then aliquot 1.5 ml plasma from each tube into individual plastic aliquot tubes and freeze. Do not pool aliquots together! Do not thaw. Hemolyzed specimens are not acceptable. Unacceptable Conditions: Serum. EDTA plasma or hemolyzed specimens.
Protein Electrophoresis, 24 Hour Urine	84166	Collect 24 hour urine specimen. No preservatives in container. Use aliquot from 24 hour Urine 10 mL required volume 5 mL minimum volume.	Refrigerate	43 – 179 mg/TB	Set up: Monday, Wednesday, Friday	24 hours	
Protein Electrophoresis, CSF	84157 84166	CSF (Cerebrospinal Fluid) Collected in a sterile screw top containers 6 mL required volume 3.5 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	3 – 4 days	Outside Reference Laboratory
Protein electrophoresis, Serum	84165 84160	Serum: SST red top tube or gold top tube. 3 mL required volume 2 mL minimum volume	Refrigerate	Pathologist Interpretation	Set up: Monday, Wednesday, Friday	24 hours	
Protein Electrophoresis, Random Urine	84166	Fresh Urine collection 10 mL required volume 5 mL minimum volume	Refrigerate	Interpretation based on clinical findings.	Set up: Monday, Wednesday, Friday	24 hours	

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Protein S Functional <i>Formerly: Protein S Activity</i>	85306	Whole Blood Sodium Citrate 3.2% blue top tube 5.4 mL required volume Alternate: Double spun Plasma 3.0 mL required volume Plasma, Citrate (light blue top tube)	Refrigerate whole blood specimen Double spin specimen Frozen	<i>See Report or Scanned Document</i>	Set up: Tuesday, Thursday	2 - 4 days	Outside Reference Laboratory Please indicate anticoagulant therapy. Collect Two 2.7mL Sodium Citrate 3.2% (Blue Top) tubes. Each 2.7mL Sodium Citrate 3.2% (Blue Top) tube must be filled to the proper level, no hemolysis. Improperly filled tubes can give erroneous results. Whole blood must be transported to lab immediately. If testing cannot be started within 4 hours of collection the specimen must be double spun then 1.5mL plasma aliquot from each tube into individual plastic aliquot tubes and freeze. Do not pool aliquots together!
Protein S Antigen, Free	85306	Whole blood, Collected in Sodium Citrate 3.2% blue top tube Alternate: Double spun Plasma, in Sodium Citrate 3.2% blue top tube. 1.5 mL required volume 1 mL minimum volume	Ambient whole blood specimen, or Frozen Double spun specimen aliquote	<i>See Report or Scanned Document</i>	Set up: Monday – Saturday	1 – 3 days	Outside Reference Laboratory Please indicate anticoagulant therapy. Collect properly filled Sodium Citrate 3.2% (Blue Top) tube. Whole blood must reach RML for processing within 4 hours of collection. If sending citrated plasma aliquots, they must be double spun then aliquot 1.5 ml plasma from each tube into individual plastic aliquot tubes and freeze. Do not pool aliquots together! Do not thaw. Hemolyzed specimens are not acceptable. Stability: Ambient: 4 hours; Refrigerated: Unacceptable; Frozen at -20°C: 3 months, at -70°C: 6 months
Protein S Antigen. Total	85305	Whole blood, Collected in Sodium Citrate 3.2% blue top tube Alternate: Double spun Plasma, in Sodium Citrate 3.2% blue top tube. 1.5 mL required volume 1 mL minimum volume	Ambient whole blood, or Frozen double spun specimen aliquote	<i>See Report or Scanned Document</i>	Set up: Sunday - Saturday	2 - 3 days	Outside Reference Laboratory Please indicate anticoagulant therapy. Collect properly filled Sodium Citrate 3.2% (Blue Top) tube. Whole blood must reach RML for processing within 4 hours of collection. If sending citrated plasma aliquots, they must be double spun then aliquot 1.5 ml plasma from each

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Protein S Antigen. Total -continued-							tube into individual plastic aliquot tubes and freeze. Do not pool aliquots together! Do not thaw. Hemolyzed specimens are not acceptable. Unacceptable Conditions: Serum. EDTA plasma or hemolyzed specimens.
Protein S Antigen	85306	Plasma, Citrate (light blue top tube) 1.5 mL required volume 1 mL minimum volume	Frozen	See Report or Scanned Document	Set up: Monday – Saturday	1 – 3 days	Outside Reference Laboratory
Protein CSF	84157	Cerebral Spinal Fluid	Refrigerate	15 – 45 mg/dl	Set up: 24 hours, daily	1 hour	
Protein, Fluid (Total Protein, Fluid)	84157	Body fluids: 5 mL	Refrigerate	Interpreted with clinical findings	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	Indicate source of body fluid.
Protein, Quantitative 24 Hour Urine	84156	24 hour urine collections should be collected in a 24 hour urine container with no preservatives	Refrigerate	0 – 0.15 gram / 24 hour	Set up: 7:00 a.m. daily	24 hours	Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient's full name, medical record number, room number; date and time collection started and date and time collection finished. Outpatient Collection: Container must be labeled with patient's full name and date of birth; date and time collection started and date and time collection finished.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Protein, Random Urine	84156	Random urine 10 mL required volume 5 mL minimum volume	Refrigerate	Interpretation based on clinical findings.	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	
Protein, 24 Hour Urine <i>Formerly: Total Protein, 24 Hour Urine</i>	84156	24 urine container No preservative in container.	Refrigerate	<i>Interpretive Data</i>	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	Collection: Instruct the patient to void at 8:00 a.m. and discard the specimen. Then collect all urine, including the final specimen voided at the end of the 24-hour collection period (i.e. 8:00 a.m. the next morning). Screw the lid on securely. Keep specimen refrigerated during collection. Transport the specimen promptly to the Laboratory. Inpatient Collection: Container must be labeled with patient's full name, medical record number, room number; date and time collection started and date and time collection finished. Outpatient Collection: . Container must be labeled with patient's full name and date of birth; date and time collection started and date and time collection finished.
Protein-Dipstick, Urine	81003	Random urine sample	Refrigerate	Negative	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	
Protime See: INR							
Protime Mixing Study	85611	Plasma, Citrate (light blue top tube) 1 mL minimum volume	< 4 hours – ambient > 4 hours Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday - Saturday	1 – 2 days	
Prothrombin G 20210	81240	Whole Blood, EDTA (Lavender top tube)	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	
Protoporphyrin, Free Erythrocyte	84202	Whole Blood, EDTA (Lavender top tube) 2 mL required volume 0.5 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 – 5 days	Outside Reference Laboratory Alternate specimen: Whole blood Heparinized. Pediatric: 0.2 mL. A volume of less than 1 mL should be foil wrapped to avoid photodegradation.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
<i>Protoporphyrin, Zinc</i> See: <i>Zinc Protoporphyrin</i>							
Pseudocholinesterase See: Cholinesterase, Serum	82638 82480	Serum, SST tiger top tube 2 mL required volume 1.0 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	4 days	Outside Reference Laboratory
PTH Intact	83970	Prefer Plasma: EDTA Lavender top tube (Can use SST tiger top tube)	Refrigerate	14 – 72 pg/mL	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	Freeze plasma if greater than 8 hours in transit.
PTH Related Protein	82542	Plasma, Protease Inhibitor tube 1.5 mL required volume 0.7 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Sunday, Wednesday, Friday	3 – 7 days	Outside Reference Laboratory Collect in: Protease Inhibitor tube (PPACK) with a winged collection set must be used. NOT RECOMMENDED: Filling collection tubes directly through a needle/tube-holder assembly increases the risk of chemical reflux back into the vein of the patient. Mix Collection tube thoroughly - Spin, separate plasma into a plastic pour off tube & freeze within 1 hour of collection. Separate specimens must be submitted when multiple tests are ordered. Unacceptable: Specimens from other collection tubes or gross hemolysis Stability: After separation from cells: Ambient: Unacceptable; Refrigerated: Unacceptable; Frozen: 3 months.
PTT (Partial Thromboplastin Time, Activated)	85730	1 – Sodium Citrate Tube (blue top tube)	< 4 hours Ambient > 4 hours Plasma Frozen < 2 hours if patient is on heparin.	25 to 37 seconds	Set up: 24 hours, daily	Stat : 1 hour Routine: 2 hours	Tube must be full and not clotted. Add on time limit 4 hours. Critical Value: PTT – > 110.0 sec (non-anticoagulated)

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
PTT Mixing Inhibitor / Study	85732	1 – Sodium Citrate Tube (blue top tube)	< 4 hours Ambient > 4 hours Plasma Frozen	Results must be correlated with patients clinical presentation	Set up: Monday – Friday	1 day	Outside Reference Laboratory Patient must be abnormal for testing to be performed. Tube must be full and not clotted. Indwelling lines should be flushed with saline only and 5 mL of blood should be discarded prior to collecting sample for coagulation studies. Deliver to the lab immediately. Alternate Specimen: None
Pumpkin Allergen <i>Formerly: Pumpkin IgE</i>	86003	Serum, SST tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Purkinje titer	82516 X2 86255 if reflexed add 86256 and 83516	Serum, SST tiger top tube 2 mL required volume 1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Varies	2 – 9 days	
Pyruvic Acid (Puriuvate)	84210	Collect specimen of blood in a green sodium or lithium heparin tube.	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory Patient should be fasting and at complete rest. Patient should avoid any exercise of the arm or hand before or during collection. Draw the specimen without the use of a tourniquet or within three minutes of applying the tourniquet, but before releasing the tourniquet. 1) Immediately after blood is drawn, add exactly 1 mL whole blood to a chilled pyruvate collection tube containing 2 mL 8 percent (w/v) perchloric acid (ARUP supply #16567) available online through eSupply using ARUP Connect™ or contact Client Services at (800) 522-2787. 2) Mix well for 30 seconds then

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Pyruvic Acid (Puruvate) --continued-							place in an ice bath for 10 minutes. 3) Centrifuge for 10 minutes at 1500 x g. 4) Decant 2 mL supernatant to an ARUP Standard Transport Tube and freeze. (Min: 1 mL) Unacceptable Conditions If less than 1 mL of blood is added to collection tube, pH of the supernatant will be too low for testing.
Q-Fever Ab IgG w/reflex <i>Formerly: Coxsackie Antibody</i>	86638 X2 Reflexed 86638 Per titer	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Wednesday, Friday	2 – 7 days	Outside Reference Laboratory Separate serum from cells ASAP or within 2 hours of collection. Transfer 1mL (Min: 0.1 mL) serum to Standard Transport Tube. Unacceptable Conditions: Contaminated, hemolyzed, or severely lipemic specimens. Stability After separation from cells: Ambient: 48 hours; Refrigerated: 2 weeks; Frozen: 1 year (avoid repeated freeze/thaw cycles) Parallel testing is preferred and convalescent specimens must be received within 30 days from receipt of the acute specimens. Mark specimens plainly as "acute" and "convalescent."
Q Fever (Coxiella Burnetii) Abs IgG and IgM	86638 x2	Serum, SST tiger top tube 1 mL required volume 2.1 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: 3 times Weekly	2 – 4 days	Outside Reference Laboratory Alternate specimen: NONE .
Quad Screen (Maternal Screen 4 (Quad Screen))	82105 82677 84702 86336	Serum, SST, tiger top tube 3 mL required volume 1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Saturday	2 – 3 days	Outside Reference Laboratory The optimal gestational age for collection is 16-18 weeks. The below information is required for accurate result interpretation: Maternal date of birth, Maternal weight, Maternal race, Maternal insulin-dependent diabetes status, History of Neural Tube Defects, History of Down Syndrome, Number of fetuses, Estimated Date of Delivery (EDD), Method of EDD determination, US/LMP/PE

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Qualitative HIV 1 DNA See: HIV-1 Qualitative PCR							
Quantiferon TB Gold See: <i>TB Gold Quantiferon</i>							
Qualitative Fecal Fat (Stool for Fat, fecal fat) Also: Fecal/Fat Qualitative	82705	Random, fresh stool 1 mL in plastic container with lid	Refrigerate	Negative	Set up: Mon - Fri 11:00 p.m. to 7:00 a.m.	24 – 72 hours	Screens for presence of fat globules
Quinidine Level	80194	Plasma, Plain red top tube, or green (sodium heparin tubes). 1 mL required volume 0.2 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Saturday	2 – 3 days	Plasma, Heparinized
RA Factor Rheumatoid Factor	86431	Serum: SST red top tube	Refrigerate	0 – 22 IU / mL	Set up: 24 hours daily	2 hours	
Ragweed, Common Short Allergen <i>Formerly: Common Ragweed (Short) IgE</i>	86003	Serum SST, tiger top tube 0.3 mL required volume 0.2 minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	<i>Outside Reference Laboratory</i> Alternate specimens: NONE
Rheumatoid Factor Quantitative Body Fluid <i>Formerly: RA, Synovia Fluid, Quantitative</i>	86430	Synovial Fluid 1 mL required volume 0.2 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday 8:00 a.m.	3 days	<i>Outside Reference Laboratory</i>
Raji Cell – See: Immune Complex Detection by Raji Cell		Serum, SST, tiger top tube 1 mL required volume 0.2 mL minimum volume	Frozen	<i>See Report or Scanned Document</i>	Set up: Tuesday	2 – 9 days	<i>Outside Reference Laboratory</i>
Random Urine Creatinine (Creatinine, Urine)	82570	Random Urine 10 mL required volume 5 mL minimum volume	Refrigerate	Interpretive Date	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Rapamycin Level (Sirolimus)	80195	Whole Blood, EDTA (Lavender top tube) 2 mL required volume	Refrigerate	See Report or Scanned Document	Set up: Monday – Saturday	2 days	Outside Reference Laboratory
Raspberry Allergen <i>Formerly: Raspberry IgE</i>	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Red Kidney Bean Allergen <i>Formerly: Red Kidney Bean IgE</i>	86003	Serum, SST, tiger top tube 1 mL required volume 0.5 mL minimum volume	Refrigerate	See Report or Scanned Document	Set up: Monday – Friday	2 - 4 days	Outside Reference Laboratory
Reducing Substance, Urine	84376	Random Urine 10 mL required volume 5 mL minimum volume	Refrigerate	Negative	Set up: 24 hour daily	5 days	This test is included in Routine urinalysis of all children younger than 5 years of age. Critical Values: Positive result on children under the age of 1 year.
Reducing Substances, Stool	84376	Feces 10 g required volume 3 g minimum volume	Frozen	See Report or Scanned Document	Set up: Tuesday – Friday	5 days	Outside Reference Laboratory Collect 10 to 30 grams feces. Place into any plastic container with tightly fitting cover (screw top preferred). Store and ship frozen. Seal container in a plastic bag before shipping.
Reflex ANA IFA <i>See: Antinuclear Antibody Titer</i>							
Renal Function Panel	80069	Plasma: Lithium Heparin – green top tube Serum: SST red top tube	Refrigerate	See below for Reference Ranges ***** Albumin: 3.5 – 5.0 gram/dl BUN: 6 – 20 mg/d	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	Tests includes: Albumin, Chloride, Calcium, Creatinine, Glucose, Phosphorous, Potassium, Sodium, BUN, CO ₂ Critical Value: BUN:

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Renal Function Panel -continued-				<p>Calcium, Serum: 8.7 – 10.4 mg/dl</p> <p>Chloride: 98 – 110 mmols/Liter</p> <p>CO₂: 21 – 32 mmols/Liter</p> <p>Creatinine: Male: 0.6 – 1.4 mg/dl Female: 0.5 – 1.2 mg/dl</p> <p>Glucose: 74 – 106 mg/dl</p> <p>Phosphorous: 0 – 16 yrs: 4.5 – 6.5 mg/dl 16 – 150 yrs: 2.7 – 4.5 mg/dl</p> <p>Potassium: Male: 0 – 1 month: 4.0 – 5.9 mmol/L 1 month to 150 yrs: 3.4 – 5.1 mmol/L Female: 0 – 1 month: 4.0 – 5.9 mmol/L 1 month to 150 yrs: 3.4 – 5.1 mmol/L</p> <p>Sodium: 136 – 145 mmols/Liter</p>			<p>> 149 mg/dl</p> <p>Calcium: < 6.1. > 13.9 mg/dl</p> <p>CO₂: < 16. > 44 mmols/L</p> <p>Glucose: < 51, > 499 mg/dl</p> <p>Phosphorous: 0 – 16 yrs: < 1.1 mg/dl 16 – 150 yrs: < 1.1 mg/dl</p> <p>Potassium Male: 0 – 1 month:..... < 3, > 5.9 mmol/L 1 month to 150 yrs: .< 3, > 5.8 mmol/L Female: 0 – 1 month.....< 3, > 5.9 mmol/L 1 month to 150 yrs:..< 3, > 5.8 mmol/L</p> <p>Sodium: < 126, > 149 mmols/L</p>

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Renin Activity,	84244	Plasma, EDTA Lavender top tube 3 mL required volume 1.2 mL minimum volume	Frozen	See Report or Scanned Document	Set up: Sunday – Saturday	2 – 4 days,	<p>Outside Reference Laboratory CRITICAL FROZEN - Separate specimens must be submitted when multiple tests are ordered. Do not refrigerate. Do not collect in refrigerated tubes. Refrigeration will cause cryoactivation to occur and protein will convert to renin causing falsely high renin activity results. Separate plasma from cells and freeze immediately.</p> <p>Unacceptable Specimens: Serum. Specimens collected in heparin, citrate, or oxalate. Refrigerated specimens.</p> <p>Stability: After separation from cells: Ambient: Unacceptable; Refrigerated: Unacceptable; Frozen: 1 month.</p> <p>Preferable Upright Specimen: 1. Specimen should be obtained before noon. The patient should be upright (seated or standing) for at least two hours. 2. Normal sodium diet (100-200 mEq/day) for at least three days. 3. Take no medications known to affect renin-aldosterone system.</p> <p>For Supine Specimens: 1. Specimen should be obtained between 8 a.m. and 10 a.m. after at least two hours in supine position. 2. Normal sodium diet (100-200 mEq/day) for at least three days. 3. Take no medications known to affect renin-aldosterone system.</p>
Reptilase	85635	Plasma, Citrate (light blue top tube) 2 mL required volume 1 mL minimum volume	Frozen	See Report or Scanned Document	Set up: Sunday – Saturday	1 – 2 days	Outside Reference Laboratory

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Reverse T3 <i>Formerly: T3, Reverse (Triiodothyronine, Reverse)</i>	84482	Serum, SST, tiger top tube Alternate: Plasma EDTA Lavender top tube 2 mL required volume 1 mL minimum volume	Frozen	<i>See Scanned Document</i>	Set up: Sunday – Saturday	2 - 5 days	Outside Reference Laboratory Allow serum specimen to clot completely at room temperature. Separate serum or plasma from cells ASAP or within two hours of collection. Unacceptable Conditions: Grossly hemolyzed specimens
Resistance Activated Protein C See: Activated Protein C Resistance							
Respiratory Culture w/Gram	87070	Secretions/brushings from bronchial procedure in sterile container	Ambient	"No Growth 48 hours"	Set up: 24 hours, daily	Final reports at 48 hours.	Susceptibility reports on significant pathogens. Preliminary reports updated daily.
Respiratory Syncytial Virus Culture	87252	Bronchoalveolar lavage (BAL), nasopharyngeal aspirate, swab, or washing, or tracheal aspirate, sputum, throat, tissue (lung, etc.). Fluid Specimen: 3 mL required volume 0.5 mL minimum volume Swab or Tissue: Place in a 3 mL viral transport media.	Refrigerate	See Report or Scanned Document	Set up: Sunday – Saturday	3 – 14 days	
Reticulocyte Count	85045	1 – EDTA Tube (Lavender top tube)	Stable for 48 hours @ 4 – 8°C	0 – 1month .2.0 – 7.0 % 1 mon – 1yr 0.5 – 4.0 % 1 yr – adult .0.4 – 2.5 %	Set up: 24 hours, daily	Stat: 1 hour Routine: 2 hours	Tube must be half full and not clotted. Add on time limit 8 hours.
Reticulocyte Hemoglobin Content	85046	1 – EDTA Tube (Lavender top tube) 3 mL required volume 0.5 mL minimum volume	Refrigerated	See Report or Scanned Document	Set up: Sunday – Saturday	24 hours	Outside Reference Laboratory
RH Work UP – No longer available – see Newborn Cord Blood Study		Cord Blood or EDTA purple bullet.	Ambient	DAT Newborn – Negative	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	Test includes blood type and DAT IgG.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Rhlg Antepartum Antepartum-Rhlg-Outpatient	86900 J2790	3 – EDTA 7 mL pink top tube or 5mL Lavender top tube) 7 mL required volume 4 mL minimum volume	Ambient	None	Set up: 24 hours, daily	1 hour	Includes type, Rh, ABSC and Rhlg product.
RhIg for Miscarriage or Product only	J2790	Rhlg Product only.	N/A	None	Set up: 24 hours, daily	20 minutes	Product only. Blood type performed in past 3 days preferred.
Rice IgE	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 – 4 days	Outside Reference Laboratory Unacceptable: Room Temperature
Rickettsia Disease Panel	86638 x4 86757 X4	Collect serum specimen. 2 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	3 days	Outside Reference Laboratory Test Include: Rocky Mountain spotted Fever IgG and IgM, Typhus Fever IgG, IgM Antibody, Coxiella Antibody
Ristocetin CoFactor See: Von Willebrand Factor Activity (RCF)							
Risperidone	80342 HCPCS G0480	Serum (Plain Red Top) 1 mL required volume 0.7 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	2 – 4 days	Outside Reference Laboratory Alternate specimen: Plasma (EDTA, Sodium Heparin, Lithium Heparin). NO SST TUBES.
Ritalin – See: Methylphenidate							
RNP – See: Extractable Nuclear Abs	86235	1 mL required volume 0.5 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	1 – 2 days	Outside Reference Laboratory
Rocky Mountain Spotted Fever IgG and IGM	86757 x2	Serum, SST, tiger top tube 1 mL required volume 0.2 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	1 – 5 days	Outside Reference Laboratory Alternate specimen: NONE. Unacceptable Conditions Contaminated, hemolyzed, or severely lipemic specimens.

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
Rotavirus Screen <i>Formerly: Rotavirus Antigen Detection</i>	87425	Fecal/Stool collected in sterile orange screw top container 3 mL required volume Alternate: Fecal/Stool collect in stool specimen container, small for random collection (gray) 3 mL required volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Daily	1 days	Outside Reference Laboratory Specimen is good for 72 hours refrigerated
Routine Surgical Pathology	CPT Code Varies based on specimen & testing performed	Specimen must be received in 10% neutral buffered formalin.	Ambient	<i>Interpretive Data</i>	Set up: Monday – Saturday 8:00 a.m. – 4:00 p.m.	24 – 36 hours	Specimens should be delivered to the lab hourly.
Rough Pigweed IgE <i>See: Common Pigweed Allergens</i>							
Non-Treponemal Antibody <i>Formerly: RPR (Cross Reference STS)</i>	86592	Serum or Plasma (EDTA & Heparin)	Refrigerate	Negative	Set up: Sunday, Tuesday, Thursday	24 – 72 hours	Titers on all positive specimens
RSV Direct Antigen	87807	NP swabs or nasal washes/aspirates	Ambient	Negative	Set up: 24 hours, daily	2 hours from receipt of specimen	Nasopharyngeal, N-P washes, sputum, aspirates.
RSV Culture	87252	N.P. Aspirate in VPLS Viral Transport Medium	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Saturday	1 – 10 days	Outside Reference Laboratory
Rubella Antibody	86762	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>Interpretive Data</i>	Set up: 24 hours, daily	Stat: 1 hour Routine: 4 hours	
Rubella Antibody IgG	86762	Serum: SST red top tube	Refrigerate	Non-Immune 0 – 5 Questionable Immunity: 5.1-9.9 Immune >10.0	Set up: 24 hours, daily	24 hours	

Test Name	CPT Code	Specimen Requirement	Temp	Reference Range	Availability	TAT	Comments
.Rubella IgM IFA <i>Formerly: Rubella IgM Antibody</i>	86762	Serum, SST tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	1 day	<i>Outside Reference Laboratory</i>
Rubeola IgG / IgM	86765 x2	Serum, SST, tiger top tube 3 mL required volume 1 mL minimum volume	Ambient	<i>See Report or Scanned Document</i>	Set up: Monday, Wednesday, Friday	3 days	<i>Outside Reference Laboratory</i> Test include: Measles IgG, Measles IgM
Rubeola IgG Measles *Measles IgG)	86765	Serum, SST, tiger top tube 1 mL required volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Sunday – Saturday	1 days	<i>Outside Reference Laboratory</i> Alternate specimen: NONE .
Rupture Fetal Membrane (Amniotic Fluid Protein)	84112	Amniotic fluid / solvent vial	Ambient	<i>See Report or Scanned Document</i>	Set up: 24 hours, daily	30 minutes	Specimen is brought directly to Core Lab. Test must be done within 30 minutes of collection.
Russell Viper Venom See: Dilute Russell Venom Panel	85613	Plasma, Citrate (light blue top tube)	Frozen	<i>See Report or Scanned Document</i>	Set up: Monday – Friday 8:00 a.m. & 4:00 p.m.	1 day	<i>Outside Reference Laboratory</i>
Saltwort, Russian Thistle Allergen <i>Formerly: Russian Thistle IgE</i>	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i> Unacceptable: Room Temperature
Rye IgE	86003	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i> Unacceptable: Room Temperature
Rye Food Allergen IgG <i>Formerly: Rye IgG</i>	86001	Serum, SST, tiger top tube 1 mL required volume 0.1 mL minimum volume	Refrigerate	<i>See Report or Scanned Document</i>	Set up: Monday – Friday	2 - 4 days	<i>Outside Reference Laboratory</i>