

Test Name	Tube Type	Specimen Requirements and Additional Information	Patient Preparation & Collection Timing	Specimen Storage and Transport	Clinical Information Required
ACETAMINOPHEN (SERUM)	SST	Serum – 1.0 mL. Centrifuge & aliquot into transfer tube.	For possible toxicity, draw sample 4-6 hrs post ingestion. Collect a second sample 3-4 hrs later.	Store and ship refrigerated.	Specify time of last dose and collection
ACETONE (SERUM)	SST	Serum – 1.0 mL. Do NOT swab site with alcohol. Centrifuge. Do NOT aliquot or open this tube.		Store and ship refrigerated. Ensure specimen is tightly capped	
ACETONE (URINE)	-	Urine Random – 10.0 mL aliquot of random urine in a conical tube		Store and ship refrigerated.	
ACETYLCHOLINE RECEPTOR ANTIBODY	SST	Serum – 1.0 mL. Centrifuge and aliquot into transfer tube. Not OHIP billable.		Store and ship frozen. Mon-Thurs	
ACETYLCHOLINESTERASE	SST	See Cholinesterase, Pseudo			
ACID PHOSPHATASE PROSTATIC		Test no longer available			
ACTH		See Adrenocorticotrophic Hormone			
ACTIVATED PROTEIN C RESISTANCE GENOTYPE		See Factor V Leiden			
ACTIVATED PROTEIN C RESISTANCE RATIO	LIGHT BLUE	Plasma – 2.0 mL. Specimen for this test must be collected, processed, aliquoted and frozen within 30 minutes of collection. If unable to meet these requirements, patients must be referred to a GDML patient service centre for collection. Collect 1 light blue top tube centrifuge and remove top 2/3 of plasma with a plastic transfer pipette into a transport tube to 2 nd transport tube, staying clear of the cell button at the bottom of the tube. Freeze immediately. NOTE: if the light blue top tube is the first vacutainer to be drawn, collect a small amount of blood in a discard tube before proceeding with the rest of the collection.		Store and ship frozen on dry ice.	

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ADENOVIRUS DETECTION	VIRUS RESPIRATORY KIT	Swab/Stool – Testing can be performed on throat, nasopharyngeal or conjunctival swab. Follow collection instructions provided in kit. Stool is also an acceptable sample and instructions for collection can be found in the TM Virus kit. Be aware that stool culture is performed from April 15 th to December 14 th only and Electron Microscopy is performed December 15 th to April 14 th .		Faeces sample should be refrigerated if transport is delayed.	
ADH		See Anti Diuretic Hormone			
ADRENOCORTICOTROPIC HORMONE (ACTH)	LAVENDER	Plasma –2.0 mL. Draw into lavender tube which has been pre-chilled 10 min. Centrifuge, aliquot plasma into aliquot tubes and freeze within 30 min of collection. Collect in GDML PSC only.	Draw blood in a.m. Fasting specimen preferred.	Store and ship frozen on dry ice.	Time of collection must be indicated on requisition and on tube.
ALANINE TRANSAMINASE (ALT)	SST	Serum - 1.0 mL centrifuged			
ALBUMIN	SST	Serum - 1.0 mL centrifuged			
ALBUMIN (URINE)	-	Urine – 24 h or Random - 10.0 mL		Store and ship refrigerated.	State Total Volume for 24 hr urine in mL.
ALBUMIN / GLOBULIN RATIO	SST	Serum – 1.0 mL			
ALCOHOL, ETHYL	GREY	Plasma– 2.0 mL. Tube must be unopened. Do not swab venipuncture site with alcohol. Lavender tube will also be accepted. Centrifuge SST.		Store and ship refrigerated.	
ALCOHOLS, FRACTIONATION & QUANTITATION	GREY	Plasma– 2.0 mL. Do not swab venipuncture site with alcohol. Tube must be unopened. Centrifuge. Unopened lavender or SST tubes may also be assayed.		Store and ship refrigerated	
ALDOLASE		Test no longer available			
ALDOSTERONE	SST	Serum – 2.0 mL. Centrifuge and separate. Freeze within 24 hrs of collection		Store and ship refrigerated. Once frozen specimen must remain frozen.	
ALDOSTERONE (URINE)	-	Urine – 24 h or Random – 10.0 mL aliquot. Freeze within 24 hours of collection.		Store and ship refrigerated. Once frozen specimen must remain frozen.	For 24 h urine state total volume in mL.

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ALKALINE PHOSPHATASE ISOENZYMES	SST	Serum - 1.0 mL		Store and ship refrigerated..	
ALKALINE PHOSPHATASE	SST	Serum - 2.0 mL			
ALKALINE PHOSPHATASE – BONE SPECIFIC	SST	Serum – 1.0 mL. Specimen must be centrifuged, separated and frozen within 30 minutes of collection. Collected in GDML PSC only.		Store and ship frozen on dry ice.	
ALLERGY TESTING (IgE specific)	SST or RED	Serum – 1.0 mL. Not OHIP billable. Specify allergen (i.e. milk, peanut, dog dander etc.). Centrifuge.			Specify allergen of interest.
ALPHA – 1 – ANTITRYPSIN	SST	Serum – 2.0 mL. Centrifuge and aliquot.		Store and ship refrigerated.	
ALPHA 1 ANTITRYPSIN PHENOTYPE	SST	Serum – 2.0 mL. Centrifuge and aliquot into a transport tube.		Store and ship refrigerated.	
ALPHA 2 MACROGLOBULIN	SST	Serum - 1.0 mL. Centrifuge and aliquot. Not OHIP billable.		Store and ship refrigerated.	
ALPHA FETOPROTEIN	SST	Serum – 1.0 mL. For prenatal testing see maternal serum screen.		Store and ship refrigerated.	Specify if testing is tumor related. Diagnosis must be indicated.
ALPHA 1 ACID GLYCOPROTEIN (OROSOMUCOID)	SST	Serum – 2.0 mL. Centrifuge and aliquot. Not OHIP billable.		Store and ship refrigerated.	
ALPHA GLYCOPROTEIN SUBUNIT	SST	Serum – 2.0 mL. Specimen for this test must be collected, processed, aliquoted and frozen within 30 min of collection.		Store and ship frozen. Avoid repeated freeze/thaw cycles	
ALPHATOCOPHEROL		See vitamin E			
ALPRAZOLAM (Xanax)	-	Test no longer available			
ALUMINUM Industrial	ROYAL BLUE TUBES	Serum – 2.0 mL. Allow blood to clot for 20 minutes and then centrifuge for 15 minutes. Transfer serum to aliquot tube.		Store and ship refrigerated.	

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ALUMINUM (URINE)	-	Urine - Random – 50.0 mL minimum. For a random urine collect midstream urine in sterile urine container.	Patient is to avoid fruits, chocolate, juices, beer, coffee and teas for 24 hrs prior to collection. Patient should also avoid antacids with aluminum which can greatly elevate the aluminum output.	Store and ship refrigerated	
AMIKACIN	SST	Serum – 1.0 mL. Timed trough and peak specimens are preferred. Centrifuge.	Peak -draw specimen 1-2 hours following I.M. or 30 minutes after IV infusion of drug. Trough – draw specimen just prior to I.M or I.V drug administration. Random - levels also available.	Store and ship refrigerated.	Indicate time of last dose and sample collection. Indicate drug dosage and dosage time in case of possible cross reaction or interference in assay.
AMINO ACIDS PLASMA	GREEN	Plasma – 1.0 mL. Centrifuge and aliquot plasma and freeze. If sample can not be frozen immediately please send plasma refrigerated to the lab, within 24 hrs of collection.	Fasting sample preferred.	Storage and ship refrigerated. Once frozen specimen must remain frozen.	Patient age & diagnosis must be indicated.
AMINO ACIDS SCREEN (URINE)	-	Urine - Random - 30.0 mL urine collected in a sterile urine container.		Store and ship refrigerated. Once frozen specimen must remain frozen.	Patient age, and diagnosis must be indicated
AMINOLEVULINIC ACID (URINE) – test no longer available on random urine.	-	Urine - 24 h –50.0 mL aliquot. Collect 24 hr urine and transfer 50.0 mL aliquot to sterile container. Protect specimen from light and freeze immediately.		Store and ship frozen. Protect specimen from light.	For 24 h urine state total volume in mL.
AMINOPHYLLINE		See Theophylline			
AMIODARONE	RED	Serum – 1.0 mL. Specimen for this assay must be collected, processed and frozen within 30 minutes of collection. Please refer patient to a GDML patient service center for collection. Centrifuge specimen without serum separator and aliquot into a transfer tube for freezing. Not OHIP billable.		Store and ship frozen. Specimen must not be thawed.	

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AMITRIPTYLINE (ELAVIL) (includes Nortriptyline)	ROYAL BLUE (NO ADDITIVE)	Serum – 2.0 mL. Centrifuge and aliquot into transfer tube. No gel separator	Collect trough specimen prior to morning dose or 10-12 h after last dose.	Store and ship refrigerated.	Indicate time of last dose and collection time on requisition & on tube.
AMMONIA	GREEN/ LAVENDER	Plasma – 1.0 mL. In Central and Eastern Ontario regions collect Green top. In Western Ontario region collect Lavender. Specimen must be collected, centrifuged, aliquoted and frozen within 30 min of collection. Patient must therefore be referred to a GDML PSC for collection.		Store and ship frozen on dry ice.	
AMOEBC DYSENTERY ANTIBODY	SST	Serum – 10.0 mL. Completed Public Health Laboratory Requisition required.	Both acute and convalescent samples required.		Indicate if patient is acute or convalescent. State viral history
AMOXAPINE		Test no longer available.			
AMPHETAMINE (URINE)	-	Urine – Random - 10.0 mL collected in sterile urine container.		Store and ship refrigerated.	
AMYLASE	SST	Serum – 1.0 mL			
AMYLASE (URINE)	-	Urine –Random – 10.0 mL		Store & ship refrigerated.	
AMYLASE ISOENZYMES	SST	Serum – 2.0 mL. Spin and separate.		Store and ship refrigerated.	Indicate clinical conditions which may affect amylase.
ANAFRANIL		See Clomipramine			
ANDROSTENEDIONE	SST	Serum – 1.0 mL. Centrifuge and aliquot to a transfer tube. Specimen will be frozen upon receipt in the laboratory within 24 hr.		Store and ship refrigerated. Specimen will be frozen in main lab facility.	Age and Sex of patient required.
ANGIOTENSIN I	-	See Renin (Angiotensin 1)			
ANGIOTENSIN CONVERTING ENZYME (ACE)	SST	Serum – 2.0 mL. Not OHIP billable. Specimen will be frozen upon receipt in laboratory within 24 hrs of collection. Test may also be performed on Cerebral Spinal Fluid.		Store and ship refrigerated. Once frozen specimen must remain frozen.	
ANTI – CCP	SST	Serum – 1.0 mL. Allow sample to clot 30 minutes, centrifuge and aliquot immediately. Freeze aliquot. Must be collected in GDML PSC. Not OHIP billable.		Store and ship on dry ice.	

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ANTI CENTROMERE ANTIBODY	SST	Serum- 1.0 mL		Store and ship refrigerated.	
ANTI DIURETIC HORMONE (ADH)	2 LAVENDERS	Plasma – 5.0 mL. Centrifuge, separate plasma at 4 degrees celsius and freeze within 30 min. Collect in GDML PSC only. Not OHIP billable.		Store and ship frozen on dry ice.	
ANTI DNA ANTIBODY (DOUBLE STRANDED)	SST	Serum – 1.0 mL		Store and ship refrigerated.	
ANTI ENA ANTIBODY SCREEN	SST	Serum – 1.0 mL		Store and ship refrigerated.	
ANTI ENDOMYSIAL ANTIBODY	SST	Serum - 2.0 mL		Store and ship refrigerated.	
ANTI EPIDERMAL ANTIBODIES (PEMPHIGUS / PEMPHIGOID)		See Anti Skin Antibody			
ANTI GLOMERULAR BASEMENT MEMBRANE ANTIBODY (ANTI GBMA)	SST	Serum - 2.0 mL.		Store and ship refrigerated.	
ANTI GLUTAMIC ACID DECARBOXYLASE	SST	Serum – 1.0 mL. Specimen must be collected, processed, aliquoted and frozen within 30 minutes of collection. Therefore patient must be referred to a GDML PSC for collection.		Store and ship frozen. Avoid freeze/thaw cycles.	
ANTI HEMOPHILIC FACTOR		See Factor VIII Assay			
ANTI HEMOPHILIC FACTOR C		See Factor XI Assay			
ANTI HISTONE ANTIBODY	SST	Serum – 1.0 mL. Centrifuge and aliquot serum to a transport tube. Testing is performed only if the ANA result is positive. Specimen may be collected in Dr's office and submitted as per routine samples but must arrive at GDML within 24 hrs or collection. Samples will be frozen upon receipts in the main lab facility.		Store and ship refrigerated if shipping within 4 days of collection. For longer intervals store frozen and ship on dry ice.	
ANTI HYALURONIDASE SCREEN	SST	Serum – 1.0 mL.		Store and ship refrigerated.	
ANTI INSULIN ANTIBODY	SST	Serum - 1.0 mL.	Collect after 12 h fast.	Store and ship refrigerated. Collect Mon-Thurs.	
ANTI MITOCHONDRIAL ANTIBODY	SST	Serum – 1.0 mL		Store and ship refrigerated.	
ANTI MYELOPEROXIDASE ANTIBODY	-	See myeloperoxidase antibody			

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ANTI MYOCARDIAL ANTIBODY	SST	Serum – 2.0 mL		Store and ship refrigerated.	
ANTI NEUTROPHILIC CYTOPLASMIC ANTIBODY (ANCA)	SST	Serum – 1.0 mL. Not OHIP billable.		Store and ship refrigerated.	
ANTI NUCLEAR ANTIBODY (ANA)	SST	Serum – 1.0 mL		Store and ship refrigerated.	
ANTI PARIETAL CELL ANTIBODY	SST	Serum - 2.0 mL		Store and ship refrigerated.	
ANTI PEMPHIGUS ANTIBODY		See Anti Skin Antibody			
ANTI PHOSPHOLIPID ANTIBODY		See Cardiolipin Antibody			
ANTI SKELETAL MUSCLE ANTIBODY	SST	Serum – 3.0 mL.		Store and ship refrigerated.	
ANTI SKIN ANTIBODY	SST	Serum – 2.0 mL		Store and ship refrigerated.	
ANTI SMOOTH MUSCLE ANTIBODY	SST	Serum – 1.0 mL		Store and ship refrigerated.	
ANTI STREPTOLYSIN O	SST	Serum – 1.0 mL		Store and ship refrigerated.	
ANTI THROMBIN III ACTIVITY	LIGHT BLUE	Plasma – 2.0 mL. Specimen for this test must be collected, processed, aliquoted and frozen within 30 minutes of collection. If unable to meet these requirements, patients must be referred to a GDML patient service centre for collection. Collect 1 light blue top tube centrifuge and remove top 2/3 of plasma with a plastic transfer pipette into a transport tube to 2 nd transport tube, staying clear of the cell button at the bottom of the tube. Freeze immediately. NOTE: if the light blue top tube is the first vacutainer to be drawn, collect a small amount of blood in a discard tube before proceeding with the rest of the collection.	Patient should not be on anticoagulant therapy.	Store and ship frozen on dry ice. Thawed specimens will not be accepted for testing.	

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ANTI THROMBIN III ANTIGEN	LIGHT BLUE	Specimen for this test must be collected, processed, aliquoted and frozen within 30 minutes of collection. If unable to meet these requirements, patients must be referred to a GDML patient service centre for collection. Collect 1 light blue top tube centrifuge and remove top 2/3 of plasma with a plastic transfer pipette into a transport tube to 2 nd transport tube, staying clear of the cell button at the bottom of the tube. Freeze immediately. NOTE: if the light blue top tube is the first vacutainer to be drawn, collect a small amount of blood in a discard tube before proceeding with the rest of the collection.		Store Frozen. Ship on Dry ice.	
ANTI THYROGLOBULIN ANTIBODIES (TG) (TAT)	SST	Serum – 1.0 mL		Store and ship refrigerated.	
ANTI THYROID MICROSOMAL ANTIBODIES (TPO) (TAM)	SST	Serum – 1.0 mL		Store and ship refrigerated.	
ANTIBODY SCREEN, ID, TITRE & AG TYPING	PINK	Whole Blood - 6.0 mL. Do not centrifuge.		Store and ship refrigerated.	
ANTICYCLIC CITRULINE PEPTIDE ANTIBODY	SST	Serum – 1.0 mL. Centrifuge and separate serum into transfer tube. Specimen will be frozen upon receipt in the laboratory within 24 hrs of collection.		Store and ship refrigerated. Once frozen specimen should remain frozen.	
ANTIMONY (RANDOM URINE)	-	Urine - Random – 50.0 mL minimum midstream urine collected in sterile urine container.		Store and ship refrigerated.	
ANTIMONY (24 HR URINE)	-	24 HR Urine – 50.0 mL aliquoted into sterile urine container. No preservative required. State 24 Hr Urine total volume.		Store and ship refrigerated.	
APOLIPOPROTEIN A1	SST	Serum – 1.0 mL. Not OHIP billable. Centrifuge and aliquot into 2 separate transfer tubes.	Collect after 12 h fast.	Mon-Thurs. Specimen must be frozen and shipped on dry ice. Must reach lab within 48 hours.	
APOLIPOPROTEIN B	SST	Serum – 1.0 mL. Not OHIP billable. Centrifuge and aliquot into 2 separate transfer tubes.	Collect after 12 h fast.	Mon-Thur. Specimen to be frozen & shipped on dry ice. Must reach lab within 48 hrs.	



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APOLIPOPROTEIN C2 ACTIVATION		Test is no longer available through Gamma-Dynacare. Please contact Dr. P Connelly (416) 864-6023 for more information.			
APOLIPOPROTEIN E		Test is no longer available through Gamma-Dynacare. Please contact Dr. P Connelly (416) 864-6023 for more information.			
APOLIPOPROTEIN E PHENOTYPING		Test no longer available. Contact Dr. P Connelly (416) 864-6023 for more information.			
ARBOVIRUS	SST	Serum – 10.0 mL. Acute and convalescent samples are required only if relevant clinical information is present (ie. Fever, rash, travel encephalitis or meningitis) is present. If testing is for screening only, a single sample is acceptable. Completed PHL form required.			Indicate travel history and history of tick/mosquito bites on requisition if clinical information is present.
ARSENIC	ROYAL BLUE (K2EDTA)	Whole Blood – 7.0 mL * Note Random Urine is the preferred specimen for arsenic analysis. Not OHIP billable. Glass royal blue or green top with Heparin is also acceptable.		Store and ship refrigerated.	
ARSENIC (HAIR)	STERILE CONTAINER	Hair – 1 heaping teaspoon. Hair should be collected closest to the scalp and cut at the nape of the neck. Collect in several places, from 6-8 spots. One heaping tsp is required. For long hair, save 1 inch from the scalp end, and place in plastic envelope. For short hair, thinning shears can be used. Send sample in sterile container.	The test should not be done if hair has been permed, bleached or dyed in the last 2 months.	Store and ship at room temperature.	
ARSENIC (NAIL)	STERILE CONTAINER	Nails – Collect as many nails as possible. Send sample in sterile container.		Store and ship at room temperature.	
ARSENIC (URINE)	–	Urine – 24 h or Random. No preservative required. For random urine collect 3.0 mL midstream urine into sterile container. Collect 24 hr specimen if urinary excretion rate data is required. Not OHIP billable. Ensure there is no metal foil around lid or neck. Collections should be performed away from suspected exposure site	Patient should avoid seafood consumption 3 days prior to collecting sample.	Store and ship refrigerated	For 24 h urine state total volume in mL and collection Start and End Time.

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ARYLSULFATASE A (URINE)	-	Urine – Random – 25.0 mL. First morning urine is preferred. Not OHIP Billable. Specimen will be frozen upon receipt in laboratory within 24 hrs of collection.		Store and ship refrigerated. Once frozen specimen should remain frozen.	
ASCORBIC ACID (VIT C)	SST	Serum – 2.0 mL. Centrifuge and aliquot into transfer tube immediately or wrap tube with foil. Freeze within 30 minutes of collection. Collect in GDML PSC only.		Store and ship frozen.	
ASCORBIC ACID (VIT C) (URINE)	-	Test no longer available			
ASPERGILLUS ANTIBODY	SST	Serum – 10.0 mL. PHL Viral history sheet required.	Both acute and convalescent samples required.		State acute or convalescent with each sample.
AST - ASPARTATE TRANSAMINASE (SGOT)	SST	Serum – 1.0 mL			
ATIVAN		See Lorazepam			
AVIAN PRECIPITINS	SST	Serum – 0.5 mL for each antigen required. Not OHIP billable. Budgie and Pigeon are done routinely. Goose, Chicken, Duck, Canary must be specifically requested if required.		Store and ship refrigerated.	Specify type of precipitin required.
B-CELLS	-	See Immunology Markers			
BABESIA	LAVENDER	Whole Blood – 3.0 mL. Collect on full lavender tube. Mix well by inversion.			
BARBITURATES (URINE)	-	Urine – Random - 10.0 mL		Store and ship refrigerated.	
BARR BODIES	Slide	Mouth Scrapings – Scrap inside mouth in cheek area with wooden cervical stick scraper and smear on slide. Spray with Cyto spray and write “Barr Bodies” on slide container.	Specify Barr Bodies on slide container.		
BARTONELLA AB	SST	Serum – 10.0 mL. Completed PHL form required. Acute and convalescent samples required.			Indicate if patient is acute or convalescent.
BENCE JONES PROTEIN (URINE)	-	Urine - 24 h or Random – 25.0 mL			For 24 h urine state total volume in mL.
BENZENE METABOLITE PROFILE (URINE)	-	Urine – 15.0 mL. Collect in sterile urine container. Not OHIP billable.	Sampling time for industrial exposure is within the last 2 h of shift	Maintain at room temperature	
BENZODIAZEPINES (URINE)	-	Urine – Random – 10.0 mL		Store and ship refrigerated.	

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BENZOYLECGONINE	-	Urine – Random – Collect 10.0 mL in sterile urine container.		Store and ship refrigerated.	
BETA – CAROTENE	SST	Serum – 1.0 mL. Centrifuge and aliquot serum. Separate within 30 minutes of collection. Avoid hemolysis. Protect sample from light and refrigerate.	Fasting sample required	Protect specimen from light by covering with foil. Store and ship refrigerated.	
BETA 2 MICROGLOBULIN	RED	Serum – 1.0 mL. Centrifuge and aliquot within 30 minutes of collection. Not OHIP billable. Collect in GDML PSC only.		Store and ship frozen on dry ice.	
BETA 2 MIRCOCLOBULIN (URINE)	-	Urine – Random –10.0 mL. Not OHIP billable. Collect in GDML PSC only.		Store and ship frozen on dry ice.	
BETA CG	SST	Serum – 1.0 mL. For pregnancy testing only. For oncology testing refer to Beta CG for Oncology below.		Store and ship refrigerated.	
BETA CG FOR ONCOLOGY	SST	Serum – 1.0 mL. For oncology testing only. For pregnancy testing refer to Beta CG above.		Store and ship refrigerated.	Specify on requisition testing is for oncology.
BETA CG (URINE)	-	Urine – Random – 10.0 mL			
BETA TRANSFERRIN	STERILE CONTAINER	Fluid (CSF or nasal body fluid) – 3.0 mL. Collect fluid and transfer to a sterile urine container.		Store and ship refrigerated.	
BILE ACIDS TOTAL (BILE SALTS)	RED	Serum -1.0 mL. Centrifuge and aliquot. Not OHIP billable. Specimen will be frozen upon receipt in the laboratory.	Collect after a 12 h fast	Store and ship refrigerated. Once frozen specimen should remain frozen. Mon.-Thurs.	
BILIRUBIN (URINE)	-	Urine – Random – 10.0 mL.		Protect form light.	
BILIRUBIN CONJUGATED (DIRECT)	SST	Serum – 1.0 mL. Hemolyzed specimens not accepted.		Protect from light.	
BILIRUBIN UNCONJUGATED (INDIRECT)	-	Calculated from Total and Direct bilirubin.			
BILIRUBIN NEONATAL	RED Microtainer	Serum – 1.0 mL. Hemolyzed sample not accepted. Centrifuge.		Protect from light.	Provide date and time of birth.
BILIRUBIN TOTAL	SST	Serum – 1.0 mL. Hemolyzed specimens not accepted.		Protect from light.	
BIOAVAILABLE TESTOSTERONE	SST	Serum – 2.0 mL. Not OHIP billable.	Collect specimen between 6:00 and 10:00 am.	Store and ship frozen on dry ice.	

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BISMUTH 24 H URINE	-	Urine 24 H or Random – 10 mL aliquot of a 24 hr or random urine collected in container with no preservative		Store and ship refrigerated.	
BLASTOMYCOSIS ANTIBODY	SST	Serum – 10.0 mL. Completed Public Health Laboratory Requisition required.	Acute and convalescent samples required.		Indicate if patient is acute or convalescent. State viral history.
BLEEDING TIME	-	Test no longer available			
BLOOD CULTURE		See Culture & Susceptibility – Blood			
BLOOD FILM EXAMINATION	LAVENDER	Whole Blood – 3.0 mL.			
BLOOD GROUP & RH(D)	PINK	Whole Blood – 6.0 mL Collect 1 dedicated 6.0 mL tube. DO NOT Centrifuge.		Store and ship refrigerated.	
BLOOD GROUP ANTIGEN TYPING	PINK	Whole Blood – 6.0 mL Collect 1 dedicated 6.0 mL lavender. DO NOT centrifuge.		Store and ship refrigerated.	
BNP		Test not available – please refer to NT-proBNP			
BORDETELLA PERTUSSIS CULTURE	BP KIT	Swab – nasopharyngeal swab is preferred specimen. Follow collection instructions in the BP kit. Completed PHL form required.		Store and ship as per kit instructions.	
BORON – URINE	-	Random Urine – 50.0 mL. Collect midstream urine in a sterile urine container.		Store and ship refrigerated.	
BORRELIA BURGDOFFERI AB		See Lyme Disease			
BROMAZEPAM		Test no longer available			
BRUCELLA ABORTUS ANTIBODY	SST	Serum – 10.0 mL. Completed Public Health Laboratory Requisition required.			Indicate if patient is acute or convalescent. State viral history.
BRUCELLA MELITENSIS ANTIBODY	SST	Serum – 10.0 mL. Completed Public Health Laboratory Requisition required.			Indicate if patient is acute or convalescent. State viral history.
BUN	-	See Urea.			

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C. DIFFICILE TOXINS	-	Stool – Collect 1 g fresh stool in dry sterile container (no preservative - collection in O&P or C&S media NOT acceptable for analysis). Completed PHL Req required for each sample collected. Collect up to 3 specimens at least one day apart (18-24 hrs). Specimens will be frozen on receipt in the laboratory. Rectal swabs are not acceptable alternative and will not be tested for toxins. Leaking specimens will also be rejected.	Choose specimens ONLY from individuals with diarrhea or symptoms or pseudomembranous colitis or antibiotic-associated diarrhea. Formed stools will be rejected. Not performed on infants less than 12 months.	Collect Mon-Wed only. Store and ship refrigerated. Sample must be tested by PHL within 72 hrs. Freeze samples that can not meet this timeframe and indicate “frozen on requisition.	Indicate date and time of collection(s) on requisitions and samples.
C-PEPTIDE	SST	Serum – 2.0 mL. Centrifuge, separate and freeze within 30 min of collection. Collect in GDML PSC only.	Patient must be fasting	Store and ship on dry ice.	
C REACTIVE PROTEIN (CRP)	SST	Serum – 1.0 mL.		Store and ship refrigerated	
C REACTIVE PROTEIN – HIGH SENSITIVITY (hs CRP)	SST	Serum – 1.0 mL.		Store and ship refrigerated.	
C1 ESTERASE – FUNCTIONAL ASSAY	LIGHT BLUE	Plasma – 1.0 mL. Collect, spin and separate plasma into aliquot tube. Freeze immediately.		Store and ship frozen on dry ice.	
C1Q IMMUNE COMPLEX DETECTION	SST	Serum – 2.0 mL. Centrifuge and aliquot into 2 transfer tubes within 60 minutes of collection. Sample will be frozen upon receipt in the laboratory.		Store and ship refrigerated until frozen. Avoid freeze/thaw cycles.	Rheumatoid factor may interfere with analysis, indicate if patient is positive for rheumatoid factor.
C5 COMPLEMENT LEVEL	LAVENDER	Plasma – 1.0 mL. Specimen for this test must be collected, processed, aliquoted and frozen within 30 minutes of collection. If unable to meet these requirements patients for this test must be referred to a GDML PSC for collection. Collect only Mon-Wed. Mix sample thoroughly, centrifuge at room temperature within 1 hour and aliquot plasma to a transfer tube and freeze.		Store and ship frozen on dry ice. Sample should be sent to the reference lab within 24 hrs of receipt as stability for this assay at -20 degrees C is 3-5 days. Do not ship on Fridays.	
CA 125 (OVARIAN)	SST	Serum – 1.0 mL. Not OHIP billable.		Store and ship refrigerated.	

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CA 15-3	SST	Serum – 1.0 mL. Specimen may be collected in Dr’s office and submitted as per routine samples but must arrive at a GDML laboratory within 24 hrs of collection. Sample will be frozen upon receipt in a GDML lab. Centrifuge and aliquot serum or plasma. Not OHIP billable.		Store and ship refrigerated. If specimen will not arrive at GDML within 24 hrs of collection freeze and ship on dry ice.	
CA 19-9 (CARBOHYDRATE AG 19-9)	SST	Serum – 6.0 mL. Not OHIP billable.		Store and ship refrigerated. Mon.-Thurs.	
CA 27-29		Test no longer available– recommend CA 15-3			
CADMIUM	ROYAL BLUE (K2 EDTA)	Whole Blood – 7.0 mL. Not OHIP billable. Do NOT centrifuge or aliquot. Collection in glass royal blue or green top tubes with heparin is also acceptable.		Store and ship refrigerated.	
CADMIUM (URINE)	-	Urine – 24 h, Random – 15.0 mL. For Random urine collect midstream urine in a sterile urine container. If urinary excretion data is required, a 24 h urine collection is the preferred specimen. Not OHIP billable.	A minimum of 15.0 mL must be collected or aliquoted. Avoid workplace collection.	Collect and ship refrigerated.	For 24 h urine state total volume in mL
CAFFEINE	SST	Serum – 5.0 mL. Not OHIP billable. Specimen for this test must be collected, processed, aliquoted and frozen within 30 minutes of collection. If unable to meet these requirements patient for this test must be referred to a GDML service centre for collection. Centrifuge.		Store frozen and ship on dry ice.	
CALCITONIN	SST	Serum – 1.0 mL. Centrifuge, separate & freeze within 30 min of collection. Collect in GDML PSC only.	Fasting required.	Store and ship frozen.	
CALCIUM	SST	Serum – 1.0 mL. For optimum results don’t use tourniquet.			
CALCIUM IONIZED	SST	ONE (1) FULL DEDICATED TUBE UNOPENED - 10.0 mL Centrifuge.		Store and ship refrigerated.	
CALCIUM (URINE)	-	Urine – 24 h or Random – 10.0 mL aliquot of 24 h urine or a random urine.		Store and ship refrigerated.	For 24 h urine state total volume in mL.
CALCULUS ANALYSIS	-	Entire Stone Specimen submitted in sterile urine container. Calculus should be submitted completely air dried. Specimens should not be submitted in liquid (formalin, urine, blood, etc), in gauze, filters, taped or on Q-Tips.			

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CANDIDIASIS SEROLOGY	-	Test no longer available			
CARBAMAZEPINE	RED	Serum – 1.0 mL. Centrifuge and aliquot as soon as possible. No gel separator.	In chronic long term use collect just before next dose.	Store and ship refrigerated.	Indicate time of last dose and collection time.
CARBAMAZEPINE EPOXIDE (metabolite of Carbamazepine)	SST	Serum – 1.0 mL. Centrifuge. Plasma from a Na Heparin or Li Heparin tube is also acceptable. Not OHIP billable.	Collect 1 hour prior to next dose.	Store and ship refrigerated.	Indicate date and time of last dose and collection on req and transport tube.
CARBON DIOXIDE (CO2)	SST	Serum – 1.0 mL. This test should be performed on a tube which has remained unopened.			
CARBON MONOXIDE		See Carboxyhemoglobin			
CARBOXYHEMOGLOBIN	-	Test is no longer available.			
CARCINOEMBRYONIC ANTIGEN (CEA)	SST	Serum – 3.0 mL. Serum – 3.0 mL. The price of this test is covered by hospital if patient meets the criteria for testing (Breast or colon cancer treatment in progress). Sample must be accompanied by completed CEA form. If the patient does not meet eligibility criteria or if no form is submitted with the sample, the patient will be billed for the test.		Store and ship refrigerated.	Indicate site of cancer. Completed CEA referral form required.
CARDIOLIPIN ANTIBODIES (IgG, IgA, IgM or total)	SST	Serum – 1.0 mL. Spin and separate serum to a transfer tube.		Store and ship frozen on dry ice.	
CARNITINE	SST	Serum – 1.0 mL. Not OHIP billable. Centrifuge, aliquot and freeze within 30 minutes of collection. Collect in GDML PSC only.		Store and ship refrigerated.	
CAROTENE		See Beta Carotene			
CAT SCRATCH FEVER ANTIBODY	SST	Clotted blood – 10.0 mL. Completed “Public Health Laboratory Test Requisition” form required.	Acute and convalescent samples required.		Indicate if patient is acute or convalescent. State viral history.

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CATECHOLAMINES (PLASMA)	LAVENDER	Plasma – 2.0 mL. Specimen for this test must be collected, processed, aliquoted and frozen within 30 min of collection. Patient for this test must therefore be referred to a GDML service center for collection. Centrifuge and aliquot plasma to aliquot tube.	Collect after overnight fast (water & non-caffeinated drinks permissible). Patient must be supine for at least 15 min prior to and during collection. Catechol drugs may interfere, including alpha methyl-dopa, alpha-methyl-para-tyrosine, isoproterenol, dobutamine and carbidopa.	Store and ship frozen on dry ice. If specimen thaws it is unsuitable for analysis	Provide list of medications.
CATECHOLAMINES (FRACTIONATED) (URINE)	-	Urine – 24 h –50.0 mL aliquot. Collect in 25 mL 6 N HCl. Contact Main Lab for collection container.	To be avoided for 48 hrs before collection: ASA, Chloralhydrate, coffee, cola drinks, dopamine, erythromycin, methyl-dopa, niacin, phenothiazines, quinidine, quinine, riboflavin, smoking, tea, tetracycline, vitamin B. To be avoided for 72 hours: avacodos, bananas, chocolate, eggplant, fruit and juices, hypertensive drugs (especially ALDOMET), pineapple, plums, Tylenol (acetaminophen), walnuts.	Store and ship refrigerated.	For 24 h urine state total volume in mL.

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CATECHOLAMINES (FREE) (URINE)	-	Urine – 24 h – 50.0 mL aliquot. Collect in 25 mL 6 N HCl. Contact Main Lab for collection container.	To be avoided for 48 hrs before collection: ASA, Chloralhydrate, coffee, cola drinks, dopamine, erythromycin, methyl dopa, niacin, phenothiazines, quinidine, quinine, riboflavin, smoking, tea, tetracycline, vitamin B. To be avoided for 72 hours: avacodos, bananas, chocolate, eggplant, fruit and juices, hypertensive drugs (especially ALDOMET), pineapple, plums, Tylenol (acetaminophen), walnuts.	Store and ship refrigerated	For 24 h urine state total volume in mL.
CD 3, CD 4, CD 8, CD 16, CD 19, CD 56	-	See Immunology Markers (Flow Cytometry).			
CEA (GI, BREAST, LUNG)		See Carcinoembryonic antigen.			
CELIAC DISEASE PANEL	SST	Serum – 1.0 mL. Centrifuge and aliquot serum into transfer tube.		Store and ship refrigerated.	
CENTROMERE ANTIBODIES		See Anti-Centromere Antibody.			
CERULOPLASMIN	SST	Serum – 1.0 mL. Centrifuge and aliquot within 30 min.		Store and ship refrigerated.	
CHANCROID	-	Refer to Haemophilus ducreyi culture.			
CHLAMYDIA CULTURE (NON GENITAL – RECTUM, THROAT, EYE)	-	PHL Culture kit with transport media. Collection instructions are included in the kit.			

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CHLAMYDIA GENITAL SWAB (UNISEX)	-	Chlamydia Genital Unisex Swab -For endocervical, use white-shafted cleaning swab to remove excess mucous from cervical os. Discard cleaning swab. Insert blue shafted collection swab into endocervical canal. Gently rotate swab for 10-30 sec. Withdraw swab avoiding contact with vaginal mucosa. Immediately place swab into transport tube. Break swab shaft at score line. Recap securely and label transport tube. For urethral swab patient should not have urinated 1 hour prior to collection. Insert blue shafted collection swab 2-4 cm into urethra. Gently rotate swab for 2-3 seconds. Withdraw swab and immediately place in transport tube. Break swab shaft at score line. Recap securely and label transport tube.	For urethral swab patient should not have urinated 1 hour prior to collection	Store and ship at room temperature	
CHLAMYDIA URINE (may be ordered in combination with G.C urine)	-	Urine – 20-30.0 mL. Collect first void urine in sterile container. Transport to the laboratory within 24 hrs of collection. Specimen will be transferred to Aptima Urine collection tube upon receipt in laboratory.	Patient should not urinate for one hour prior to collection. Females should not cleanse labial area prior to collection.	Transport refrigerated.	
CHLAMYDIA PSITTACI AB	SST	Serum – 10.0 mL. Completed Public Health Laboratory Test Requisition” required.	Acute and convalescent samples required.		Indicate if patient is acute or convalescent. State viral history.
CHLORAMPHENICOL (random, peak and trough)	GREEN HEPARINIZED	Plasma –3.0 mL. Not OHIP billable. Specimen may be collected in Dr’s office and submitted as per routine samples, but must arrive at a GDML site within 24 hrs of collection. If collection is in an SST tube, mix my slowly inverting tube 5 times. If collection is in a green top heparin tube, mix by slowly inverting 10 times. Centrifuge and transfer serum or plasma into aliquot tube. Specimen will be frozen upon receipt in the laboratory.	For I.V administration collect Pre-dose – immediately prior to next dose & Post-dose – 2 hours after last dose. For oral administration collect pre-dose prior to next dose and post dose 2-3 hours after last dose.	Store and ship refrigerated. If specimen will arrive at GDML longer than 24 hrs after collection, freeze, store and ship on dry ice.	Indicate date and time of last dose and collection on both the requisition and tube.

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CHLORDIAZEPOXIDE	RED	Serum – 3.0 mL. Specimens for this test must be collected, processed, aliquoted and frozen within 30 min of collection. Patient for this test must therefore be referred to a GDML Patient Service Center for collection. Separate serum from cells ASAP.		Store and ship frozen on dry ice.	
CHLORPROMAZINE	RED	Serum – 2.0 mL. Protect specimen from light using foil or an amber vials	Collect trough specimen just prior to next dose.	Ship & store refrigerated protected from light.	
CHLORIDE	SST	Serum – 1.0 mL			
CHLORIDE (URINE)	-	Urine – 24 h or Random – 10.0 mL.		Store and ship refrigerated.	For 24 h urine state total volume in mL.
CHOLESTEROL	SST	Serum – 1.0 mL.	Fasting specimen preferred		
CHOLINESTERASE PHENOTYPING	SST	Serum – 2.0 mL. Plasma is not acceptable for analysis.	If patient has had recent surgery please wait 24 hr to collect specimen.		
CHOLINESTERASE, PSEUDO	Lavender	Plasma – 2.0 mL.		Store and ship refrigerated.	
CHOLINESTERASE, RBC	2 LAVENDER	Whole Blood – 5.0 mL Collect and mix well by inversion. Centrifuge within 1 h, remove plasma and submit red cells.		Store and ship refrigerated.	
CHORIONIC GONADOTROPIN (CG)		See Beta HCG			
CHROMIUM (PLASMA)	ROYAL BLUE (K2EDTA)	Plasma – 2.0 mL. Centrifuge within ½ hour of collection and aliquot plasma to polypropylene tube. Not OHIP billable. Collection in glass royal blue or green top tubes with Heparin is also acceptable.		Store and ship refrigerated.	
CHROMIUM (WHOLE BLOOD)	GREEN (NA OR LI HEPARIN)	Whole Blood – 6.0 mL. Do not centrifuge or aliquot. Glass green top will not be acceptable.		Store and ship refrigerated.	
CHROMIUM (URINE)	URINE	Urine - 24 h or Random – 50.0 mL. Collect and ship in sterile urine container. Not OHIP billable.		Collect and ship refrigerated in sterile urine container.	For 24 h urine state total volume in mL.

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CHROMOGRANIN A	RED	Serum – 2.0 mL. Specimen may be collected in Dr's office and submitted as per routine samples but must arrive at the lab within 24 hrs of collection. Samples will be frozen upon receipt in the lab. Collect 1-10 mL red top tube. Centrifuge and aliquot serum into 2 -1mL aliquots and freeze within 24 hrs.		Store and ship refrigerated until frozen in laboratory. Once frozen specimen should remain frozen.	
CHROMOSOME ANALYSIS (performed by designated hospital local to the laboratory)	GREEN X 2	Whole Blood – 20.0 mL. Collect 2X10 mL green top tubes. Store at room temperature. Do not freeze, open or aliquot from tube (must maintain sterility). Must only be drawn at a main lab collection centre before 12:00 noon. Specimens to be analyzed within 24 hours of collection. Please ensure minimum of 2 patient identifiers are provided on the tube. If unable to obtain a venipuncture, blood may also be aseptically drawn into a 3.0 mL sodium heparin tube. EDTA tube not acceptable for analysis.		Take specimens to Specimen Processing immediately and they will contact dispatch to make arrangements for special pick-ups & transport. Mon-Thurs.	Require patient's history and clinical diagnosis plus complete physician contact information. Chromosome form required. Indicate on form reason for FISH request.
CIRCULATING ANTICOAGULANT		See Lupus Anticoagulant.			
CITRATE (24 hour URINE)	URINE	Collect the 24 hour urine in 25mL 6N HCl. Submit a 10 mL aliquot in a conical or round bottom tube. Aliquot will be frozen upon receipt in the laboratory. State total volume.		Store and ship refrigerated until frozen by laboratory. Once frozen sample should remain frozen.	For 24 hr urine state total volume in mL.
CK – ISOENZYMES	SST	Serum – 2.0 mL Centrifuge and separate immediately and freeze. All CK fractions are provided with this assay.		Store and ship frozen.	
CK – MB (mass)	SST	Serum – 2.0 mL Centrifuge and separate immediately and freeze.		Store & ship refrigerated. Freeze if not processed in 24 h	
CK (CREATINE KINASE)	SST	Serum - 1.0 mL.			
CLOBAZAM	SST	Serum – 2.0 mL. Collect dedicated tube.		Store and ship refrigerated.	
CLOMIPRAMINE	ROYAL BLUE (NO ADDITIVE)	Serum – 2.0 mL. Centrifuge and aliquot into transfer tube. No gel separator	Collect trough specimen prior to next morning dose or 10-12 hrs after last dose.	Store and ship refrigerated.	Indicate time of last dose and collection on requisition & tube.

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CLONAZEPAM	ROYAL BLUE NON HEPARINIZED	Serum – 3.0 mL. Centrifuge and aliquot into transfer tube. No gel separator. Sample will be frozen upon receipt in the laboratory.	Draw trough level before next dose administered.	Store & ship refrigerated until frozen in laboratory. Once frozen specimen should remain frozen.	Indicate time of last dose and collection.
CLOZAPINE	RED	Serum – 1.0 mL. Specimen may be collected in Dr.'s office and submitted as per routine samples, but must arrive at a GDML site within 24 hrs of collection. Centrifuge specimen and transfer serum or plasma into aliquot tube.	Collect specimen prior to next dose or at least at the ¾ time mark of the dosing interval (ie. Dose is every 24 hrs then collect at least 18 hrs after previous dose)	If specimen will arrive at GDML longer than 24 hrs after collection, freeze, store and ship aliquot on dry ice. Otherwise store and ship refrigerated.	Indicate the date and time of last dose as well as date and time of collection on both the aliquot tube and the requisition.
CLOSTRIDIUM BOTULINUM TOXIN		Test no longer available			
CLOSTRIDIUM TETANI AB		Test is no longer available as per PHL			
CLOSTRIDIUM DIFFICILE TOXIN	-	See c. difficile Toxins			
CLOZAPINE	RED	Serum – 1.0 mL. Plasma from an EDTA sample is also acceptable for analysis. Centrifuge and transfer serum or plasma into aliquot tube. Specimen may be collected in Dr.'s office and submitted as per routine specimens but must arrive at main lab facility within 24 hrs of collection. Sample will be frozen upon receipt in laboratory.	Trough sample should be collected before next dose or at least at ¾ time mark of the dosing interval (i.e. if dosing every 24 hrs, draw at least 18 hrs after previous dose).	Store and ship refrigerated. If specimen will arrive at GDML longer than 24 hrs after collection, freeze, store and ship on dry ice.	Indicate the date and time of last dose and collection on both the requisition and tube.
COBALT (PLASMA)	ROYAL BLUE (K2EDTA)	Plasma – 2.0 mL. Centrifuge within ½ hour of collection & transfer plasma to transfer tube. Not OHIP billable. Collection in glass royal blue or green top tubes with heparin is also acceptable.		Store and ship refrigerated	
COBALT (URINE)	-	Urine – Random or 24 HR – 50.0 mL aliquot required. For random urine collect an a.m. midstream urine into a sterile container. Not OHIP billable.	24 h urine preferred due to diurnal variation. Collection should be performed away from suspected exposure site. Patient should avoid beer for 24 hrs before collection.	Ship and store refrigerated.	For 24 H urine indicate total volume.
COCAINE (URINE)	-	Urine – Random. 10.0 mL		Store and ship refrigerated.	

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COCCIDIOMYCOSIS ANTIBODY	SST	Serum – 10.0 mL. Completed PHL requisition must accompany specimen.			Indicate if patient is acute or convalescent. State viral history
CODEINE (URINE)	-	Urine – Random – 10.0 mL.		Store and ship refrigerated.	
COLD AGGLUTININS	LAVENDER	Plasma – 4.0 mL. Mix well by inversion		Specimen must remain at room temperature until analysis.	
COLLAGEN CROSS-LINKS (TELOPEPTIDE)	URINE	Urine – Random – 30.0 mL collected in sterile container.	Aliquot from second voided urine recommended.	Store and ship frozen on dry ice.	
COMPLEMENT C1 ESTERASE INHIBITOR	SST	Serum – 1.0 mL		Store and ship refrigerated.	
COMPLEMENT C2	SST	Serum – 1.0 mL. Centrifuge and aliquot into 2 transfer tubes within 30 min of collection. Freeze immediately. Collect in GDML PSC only.		Ship and store frozen on dry ice. Avoid repeated freeze/thaw cycles.	
COMPLEMENT C3 (B1 Globulin)	SST	Serum – 1.0 mL		Store and ship refrigerated	
COMPLEMENT C4 (B1E Globulin)	SST	Serum – 1.0 mL.		Store and ship refrigerated	
COMPLEMENT CH50 – HEMOLYTIC	SST	Serum – 2.0 mL. Allow blood to clot at room temperature, centrifuge, aliquot and freeze serum within 30 minutes. Collect at GDML PSC only.		Store and ship frozen on dry ice. Mon–Thurs .	
COMPLETE BLOOD COUNT	LAVENDER	Whole blood – 3.0 mL mixed well by inversion. (Includes all cell parameters, indices and automated differential).			
COOMB’S TEST DIRECT	PINK	Whole Blood – 7.0 mL. Do not centrifuge.		Store and ship refrigerated.	
COOMB’S TEST INDIRECT	PINK	Whole Blood – 7.0 mL. Do not centrifuge.		Store and ship refrigerated.	
COPPER	ROYAL BLUE (NO ADDITIVE)	Serum– 2.0 mL. Centrifuge and aliquot serum into transfer tube.		Store and ship refrigerated.	
COPPER (URINE)	-	Urine – 24 h or Random –10.0 mL. Serum is the preferred specimen.		Store and ship refrigerated.	For 24 h urine state total volume in mL.

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COPROPORPHYRIN	-	Urine - 24 hr or Random – 50.0 mL. Random container with 0.5g sodium carbonate. 24hr container with 5g sodium carbonate.		Protect specimen from light by wrapping in foil. Store & ship frozen in brown bag.	For 24 hr urine state total volume in mL.
CORDARONE	-	See Amiodarone. Not OHIP billable			
CORTICOSTEROIDS (17-OH)	-	24 hr Urine – 50.0 mL aliquot or measured 24 hr urine collected without preservative. Collection without preservative is preferred, however, collection in acid is also acceptable. Collection may be performed in doctor's office, however, specimen must reach the lab within 24 hrs of collection. Aliquot will be frozen upon receipt in the main lab facility.		Store and ship refrigerated until frozen in main lab. Once frozen store and ship frozen.	State 24 hr volume on sample and requisition.
CORTISOL	SST	Serum – 1.0 mL	Random or timed (draw specimen X minutes after drug administration) or pre/post ACTH (draw specimen pre or post drug administration). A.M specimens should be collected between 6 and 8 a.m.	Store and ship refrigerated.	Indicate time of last dose and collection, and type of collection on requisition and tubes.
CORTISOL (URINE)	-	Urine - 24 h or Random – 50.0 mL		Store and ship refrigerated.	For 24 h urine state total volume in mL
CORTISOL FREE (URINE)	-	Urine – 24 hr Urine		Store and ship refrigerated.	State volume for 24 hr urine.
COUMADIN		See Warfarin. Not OHIP billable.			
COXIELLA BURNETTI	SST	Serum – 10.0 mL. Completed PHL form required. Both acute and convalescent samples required.			Indicate if patient is acute or convalescent.

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COXSACKIE VIRUS CULTURE	VIRUS CULTURE KIT	Swab – Acceptable sample types include throat swab, faeces and CSF. If collecting throat swab follow instructions provided in the virus culture kit. If collecting faeces follow instructions provided in the virus TM kit and be aware the culture on faeces is performed April 15 th to December 14 th only. Electron microscopy is performed from December 15 th to April 14 th . CSF is to be collected in a sterile container. Completed PHL requisition is required.		Store and ship as per kit instructions. CSF may be refrigerated.	
CREATINE KINASE (CK)		See CK.			
CREATINE KINASE ISOENZYMES		See CK Isoenzymes.			
CREATININE	SST	Serum - 1.0 mL			
CREATININE (URINE)	-	Urine - 24 h or Random – 10.0 mL		Store and ship refrigerated.	For 24 h urine state total volume in mL
CREATININE CLEARANCE	SST + 24 h URINE	Serum + 24 h Urine – Serum 1.0 mL and Urine 10.0 mL.	Collect blood and urine during same period of time	Store and ship refrigerated.	Indicate total volume, patient's height and weight.
CRYOFIBRINOGEN	LAVENDER & 1 SST OR RED	Plasma & Serum – Plasma 2.0 mL and Serum 2.0 mL. Allow blood to clot and cells to settle at 37°C. Separate serum and plasma from cells immediately and label each vial plasma or serum	Collect after 12 h fast	Do not refrigerate.	
CRYOGLOBULINS	RED	Serum - Serum 10.0 mL. Allow blood to clot and cells to settle at 37°C for 1 h (in a water bath). Centrifuge and pipette serum into a transfer tube. After separation, tubes of serum and clot must be shipped together attached by elastic band. Collection must be performed in a Gamma-Dynacare STAT Lab or Main lab (due to required water bath).	Collect after 12 h fast.	Do not refrigerate. Ship cells and serum tubes attached together with elastic at room temperature	
CRYPTOCOCCOSIS AG	SST	Serum – 10.0 mL. Completed Public Health Laboratory requisition required			Indicate if patient is acute or convalescent. State viral history.

Test Name	Tube Type	Specimen Requirements and Additional Information	Patient Preparation & Collection Timing	Specimen Storage and Transport	Clinical Information Required
CULTURE – STOOL	-	Stool – 1g in Enteric Transport Media. Investigation for Salmonella, Shigella, Campylobacter, Yersinia & E. coli 0157:H7 is routinely performed.	One stool specimen per day to a maximum of 2 stools per patient. Follow detailed collection instructions provided in Collection Instructions.	Store and ship at room temperature	If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CULTURE AND SUSCEPTIBILITY - URINE	-	Urine - Midstream – 10.0 mL Refrigerate immediately.	First morning specimen preferred. Follow detailed collection instructions provided in Collection Instructions.	Refrigerate immediately for storage and transport.	If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CULTURE AND SUSCEPTIBILITY - WOUND	-	Swab – in transport media. If anaerobic culture required, “anaerobic swab” should be used. Available from Microbiology department.		Store and ship at room temperature	If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CULTURE AND SUSCEPTIBILITY - BLOOD	-	2 Blood Culture Bottles – Collect 10.0 mL of blood in each. Collect into Aerobic and Anaerobic bottle. Refer to collection instructions. Do not refrigerate. If patient is on antibiotic please collect in FAN bottles. Paediatric bottles should be used for children and any volume is acceptable for paediatric patients. For blood culture collection disinfect the skin with an alcohol-based chlorhexidine product such as ChloraPrep.	Follow detailed collection instructions provided in Collection Instructions..	Do not refrigerate.	If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CULTURE -EAR	-	Swab – Ear canal.		Refrigerate	If patient is on antibiotic indicate antibiotic prescribed.
CULTURE AND SUSCEPTIBILITY – EYE	-	Swab – in transport media.		Store and ship at room temperature	Indicate left or right eye. If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.

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CULTURE AND SUSCEPTIBILITY – FLUID	-	Fluid – Variable. Collect in sterile container. Blood Culture container may be used. RED top vacutainers are not acceptable due to interferents.	Follow detailed collection instructions provided in Collection Instructions.	If fluid has been collected by syringe, the fluid should be transferred into a sterile container for transport. DO NOT SEND SYRINGES	State type of fluid. If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CULTURE AND SUSCEPTIBILITY – MOUTH	-	Swab – in transport media.		Store and ship at room temperature	If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CULTURE AND SUSCEPTIBILITY – RECTUM	-	Swab – in transport media. *Note: for the isolation of Enteropathogens stool is the specimen of choice. Swab collection is suboptimal for this purpose.		Store and ship at room temperature	Indicate on swab and on OHIP requisition if GC is required. If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CULTURE AND SUSCEPTIBILITY - SPUTUM	-	Sputum – in a sterile container. One specimen is recommended.	Follow detailed collection instructions provided in Collection Instructions. Saliva specimens not acceptable. Specimens should be collected after deep coughing.	Refrigerate	If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CULTURE (THROAT)	-	Swab – in transport media. For C. diphtheriae refer to Diphtheria.	Follow detailed collection instructions in this manual.	Refrigerate	Indicate on swab and OHIP requisition if GC is required. If patient is allergic to Penicillin or if patient is on antibiotic indicate on OHIP requisition.

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Test Name	Tube Type	Specimen Requirements and Additional Information	Patient Preparation & Collection Timing	Specimen Storage and Transport	Clinical Information Required
CULTURE URETHRA	-	Swab – in transport media.		Store and ship at room temperature	If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CULTURE AND MICROSCOPY - VAGINA	-	Smear – air dry, or; Swab – in transport media Vaginal swabs should be collected for the detection of Trichomonas, yeast or BV.		Store and ship at room temperature	If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CULTURE AND SUSCEPTIBILITY FOR N. GONNORRHOEAE (GC) (CERVIX and URETHRA)	-	Swab – in transport media. Vaginal swab acceptable for children. GC culture on throat swabs is not routinely performed however it is available upon request.		Store and ship at room temperature	Indicate GC on swab and OHIP requisition if GC is required. If patient is on antibiotic indicate antibiotic prescribed. Provide clinical symptoms under remarks.
CYANIDE	LAVENDER	Whole Blood – 10 mL. Not OHIP billable. Dedicated tube required.		Store and ship refrigerated.	
CYCLOSPORIN	LAVENDER	Whole Blood – 4.0 mL. Dedicated tube required.	To monitor therapy draw specimen prior to administration of next dose.	Store and ship at room temperature.	Indicate time of last dose and collection
CYSTATIN C	SST	Serum – 1.0 mL. Centrifuge and aliquot serum into transfer tube and refrigerate. Not OHIP billable.		Store and ship refrigerated. Specimen must not freeze.	
CYSTIC FIBROSIS	2 LAVENDER	Whole Blood – 8.0 mL. Completed Molecular Diagnostic Requisition must accompany the samples. Forms available at www.sickkids.ca/molecular for physicians in the Toronto area and at www.lhsc.on.ca/lab/molegen/index.htm for physicians in the London area.		Store and ship at room temperature. If delayed longer than 24 hrs refrigerate up to 48 hrs and then ship at room temperature.	Provide all information requested on the form.

Test Name	Tube Type	Specimen Requirements and Additional Information	Patient Preparation & Collection Timing	Specimen Storage and Transport	Clinical Information Required
CYSTINE	GREEN	Plasma – 1.0 mL. Centrifuge and aliquot. Sample will be frozen on receipt in laboratory.	Minimum 4 hr fast required.	Store and ship refrigerated until frozen by laboratory. Once frozen sample should remain frozen.,	Diagnosis and age required.
CYSTINE –QUANTITATIVE (URINE)	-	Urine – Random –30.0 mL. Quantitation will only be performed if screen is positive.		Mon-Thurs. Store and Ship refrigerated where possible.	Indicate patient age, diagnosis and special diet on requisition.
CYTOLOGY – ASPIRATION BIOPSY	-	Collect specimen by conventional method. Expel material into container of cytology collection fluid available from laboratory. DO NOT send needle.			
CYTOLOGY – DIRECT SMEAR (ORAL, PHARYNGEAL, NIPPLE DISCHARGE ETC.)	-	Apply specimen directly to clearly labeled slide(s) from source or collection instrument. Smear & fix immediately with cytology fixative.			
CYTOLOGY – LIQUID BASED	-	Refer to instructions for collection of liquid based pap specimens.			
CYTOLOGY – FOR MALIGNANT CELLS (SPUTUM)	-	Sputum must be produced by a deep cough. Collect the specimen directly into a labeled specimen bottle. Clearly label specimen “Sputum Cytology for Malignant Cells”.		Store and ship refrigerated.	
CYTOLOGY – FOR MALIGNANT CELLS (URINE)	-	Void directly into the specimen bottle containing the preservative or mix with equal volume of preservative immediately after voiding into specimen bottle. Clearly label specimen container. “Urine Cytology for Malignant Cells”.		Store and ship refrigerated.	
CYTOLOGY FLUIDS	-	Place specimen in labeled container with equal volume of preservative. Mix gently by inversion.			
CYTOLOGY PAP SMEAR (CONVENTIONAL)	-	Label slide with pencil on frosted end of slide. Unlabelled slides will not be processed. Obtain sample and smear on slide. Spray immediately with cytology fixative before drying occurs.			
CYTOLOGY PAP SMEAR (LIQUID BASED)	-	Clearly label bottle in ink with patient’s name. Obtain sample and immediately place head of collection device in fixative to avoid degeneration of material.			

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Test Name	Tube Type	Specimen Requirements and Additional Information	Patient Preparation & Collection Timing	Specimen Storage and Transport	Clinical Information Required
CYTOMEGALOVIRUS CULTURE – DETECTION	VIRUS CULTURE KIT	Swab – Follow collection instructions provided in the kit. Bronchial washing and urine are also acceptable. For Bronchial washings use original collection vial or tube. For urine collection use virus TM kit and follow collection instructions.		Store and ship as per kit instructions.	
CYTOMEGALOVIRUS IGG/IGM ANTIBODY – DIAGNOSIS	SST	Serum – 10.0 mL. Testing is performed ONLY if physician has requested a viral state for IGG/IGM or IGM alone. If the request is for IGG testing, then order Cytomegalovirus Immune.		Store and ship refrigerated	Indicate is sample is acute or convalescent and any relevant clinical information (fever, rash, travel history, exposure, tick bite, etc.).
CYTOMEGALOVIRUS IGG IMMUNE STATUS	SST	Serum – 10.0 mL. Testing is for immunity only.		Store and ship refrigerated.	Indicate sample is for immunity.

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