

Test Name	Tube Type	Specimen Requirements and Additional Information	Patient Preparation & Collection Timing	Specimen Storage and Transport	Clinical Information Required
D-DIMER	LIGHT BLUE	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 must be referred to a GDML patient service center for collection. Collect 1 light blue top tube, centrifuge and aliquot the top 2/3 of plasma with a pipette into a transport tube being careful not to disturb cell layer. Centrifuge plasma aliquot and transfer to 2 nd transport tube, staying clear of the cell button at the bottom of the tube. Freeze immediately.		Store and ship frozen on dry ice. Send immediately.	
D-LACTATE	SST	Serum – 2.0 mL. Specimen must be collected, processed, aliquoted and frozen within 30 min of collection. Patient must be referred to a Gamma-Dynacare Patient Service Centre for collection		Store frozen and ship on dry ice. If specimen thaws it is unsuitable for analysis.	
DALMANE		Test no longer available			
DEHYDROEPIANDROSTERONE – SULPHATE (DHEAS)	SST	Serum – 1.0 mL		Store and ship refrigerated.	
7-DEHYDROCHOLESTEROL	SST	Serum – 1.0 mL. Centrifuge and aliquot into transfer tube. Protect from light. Freeze upon receipt in main lab. Heparinized plasma is also acceptable sample.		Store and ship frozen once frozen.	
DELTA AMINOLEVULNIC ACID (URINE)	-	Urine - 24 h – 50.0 mL. Collected in 25 mL 6 N HCl. Contact Main Lab for collection container.		Store and ship refrigerated.	For 24 h urine state total volume in mL.
DENGUE AB	SST	Serum – 10.0 mL. Acute and convalescent samples are required only if relevant clinical information is present (ie. Fever, rash, travel). If testing is for screening only, a single specimen is acceptable. Complete Public Health form must be submitted with the samples.			Indicate full travel history and history of tick or mosquito bite if clinical information is present.

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DEOXYCORTISOL – 11	SST	Serum – 2.0 mL. Specimen may be collected in Dr's office and submitted as per routine samples but must arrive at GDML laboratory within 24 hrs of collection. Samples will be frozen upon receipt in a GDML main lab facility. Centrifuge and aliquot serum into transfer tube. Plasma from lavender top tube also acceptable.		Store and ship refrigerated until frozen in main lab. Once frozen store and ship frozen.	
DEOXPYRIDINOLINE (DPD)	-	Urine – 10.0 mL. No preservative required. Not OHIP billable.	Void first morning sample and discard. Collect all subsequent urine voided in next 2hr interval. 24hr timed collection is also acceptable.	Protect sample from light. Store and ship refrigerated.	For 24hr urine please provide total volume
DEPAKENE (VALPROIC ACID)	-	See Valproic Acid			
DERMATOPATHOLOGY / HISTOPATHOLOGY		See Histology			
DESIPRAMINE	ROYAL BLUE NON-HEPARINIZED	Serum – 2.0 mL. Centrifuge and aliquot into transfer tube. No gel separator	Collect trough prior to dose or 10-12 h after last dose.	Store and ship refrigerated.	Indicate time of last dose and collection.
DESYREL		See Trazodone			
DHEA – S		See Dehydroepiandrosterone-sulphate			
DIAZEPAM	ROYAL BLUE (Non Heparinized)	Serum – 3.0 mL. Centrifuge and separate into transfer tube. No gel separator	Collect trough specimen prior to morning dose or 10-12 hr after last dose	Store and ship refrigerated.	Indicate time of last dose and collection on requisition & tube.
DIFFERENTIAL		See Complete Blood Count			
DIGOXIN	RED	Serum - 2.0 mL aliquoted to transfer tube. No gel separators. Hemolysed specimens are not accepted.	Collect sample 8-24hr after drug ingestion	Store and ship refrigerated.	Indicate time of last dose and collection.
DIHYDROTESTOSTERONE	SST	Serum – 3.0 mL Not OHIP billable. Centrifuge, aliquot and freeze within 30 minutes of collection. Collect in GDML PSC only.		Store and ship frozen on dry ice. Mon-Thurs	

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DILANTIN (PHENYTOIN)	RED	Serum – 2.0 mL. Centrifuge and aliquot into transfer tube. No gel separator	Due to long half life, time of draw in not critical. However when making comparative therapeutic measurements timing should be consistent. Draw trough specimen prior to next dose.	Store and ship refrigerated.	Indicate time of last dose and collection.
DILANTIN FREE	RED	Serum – 1.0 mL. Not OHIP billable. Centrifuge and aliquot into transfer tube. No gel separator		Store and ship refrigerated.	Indicate date and time of last dose and collection on both the requisition and tube.
DIPHThERIA ANTI-TOXIN LEVELS		Test is no longer available as per PHL			
DIPHThERIA CULTURE	THROAT SWAB	Throat Swab – completed PHL requisition required. Indicate site on sample. Specimen must be handled immediately on receipt in main lab as per LIS instructions.		Specimen is to be shipped immediately and refrigerated. GDML Specimen Processing department must be notified of incoming sample by the physician or Patient Service Center submitting the specimen.	
DIRECT ANTI-HUMAN GLOBULIN		See Coombs			
DISOPYRAMIDE	GREEN	Plasma - 1.0 mL. Centrifuge and aliquot into transfer tube.	Collect trough just prior to next dose.	Store and ship refrigerated.	Indicate time of last dose and collection.
DOXEPIN	ROYAL BLUE NON-HEPARINIZED	Serum – 2.0 mL. Centrifuge and aliquot into transfer tube. No gel separator	Collect trough specimen prior to morning dose or 10 h after last dose.	Store and ship refrigerated.	Indicate time of last dose and collection Specify drug to be measured.
DRUGS OF ABUSE (URINE)	-	Urine – Random 20.0 mL.		Store and ship refrigerated where possible.	
ECHINOCOCCUS GRANULOSIS ANTIBODY	SST	Serum – 10.0 mL. Completed Public Health Laboratory Test Requisition required.			Indicate if patient is acute or convalescent. State viral history.

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ECHO VIRUS SWABS	VIRUS CULTURE KIT	Swab – Acceptable samples for this test are throat swab, faeces and CSF. If collecting a throat swab follow instructions in the Virus culture kit. If collecting faeces follow instructions in the virus TM kit and be aware that culture on faeces is performed from April 15 th to December 14 th . Electron microscopy is performed from December 15 th to April 14 th only. CSF is to be collected in a sterile container. Completed PHL requisition is required.		Store and ship as per kit instructions.	
ELAVIL	-	See Amitriptyline			
ENDOMYSIAL ANTIBODY	SST	Serum – 2.0 mL		Store and ship refrigerated.	
ENTAMOEBA HISTOLITICA – STOOL	Sterile Container	Stool – Collect 1 g. of stool in a sterile urine container. Completed PHL form is required. Results of any previous positive Entamoeba histolitica should accompany samples.		Store and ship at room temperature	
EPINEPHRINE (URINE)		See Catecholamines Fractionated			
EPSTEIN BARR VIRUS AB	SST	Serum – 10.0 mL. Completed Public Health Laboratory Test Requisition required.		Store and ship refrigerated.	
ERYTHROPOIETIN	SST	Serum – 2.0 mL. Not OHIP billable. Sample will be frozen upon receipt in laboratory.		Store and ship refrigerated until frozen. Once frozen sample should remain frozen.	
ESR		See Sedimentation Rate, Erythrocytes.			
ESTRADIOL (ESTROGENS NON-PREGNANT)	SST	Serum – 2.0 mL		Store and ship refrigerated.	Indicate patients age and sex
ESTRIOL (ESTROGENS PREGNANT)	SST	Serum – 1.0 mL		Store and ship refrigerated	Indicate weeks of gestation and age.

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ESTRONE	SST	Serum – 1.0 mL. Specimen may be collected in Dr's office and submitted as per routine samples but must arrive at GDML laboratory within 24 hrs of collection. Samples will be frozen upon receipt in GDML main lab facility. Centrifuge and aliquot serum to a transport tube.		Store and ship refrigerated to arrive at main lab within 24 hrs of collection. If unable to meet 24 hr requirement freeze specimen & ship on dry ice.	Indicate date of birth and sex.
ETHANOL		See Alcohol Ethyl			
ETHANOL (URINE)	-	Urine – Random 10.0 mL.		Store and ship refrigerated	
ETHCHLORVYNOL	-	Test is no longer available.			
ETHOSUXIMIDE (ZARONTIN)	SST	Serum – 1.0 mL Centrifuge	Due to the long half life of drug time of draw is not important. When making comparative therapeutic measurements timing should be consistent.	Store and ship refrigerated.	Specify time of last dose and collection.
ETHYL GLUCURONIDE	-	Urine – 30.0 mL collected in a sterile urine container.		Store and ship refrigerated.	
ETHYLENE GLYCOL	GREY	Plasma – 2.0 mL. Not OHIP billable.		Store and ship refrigerated.	
FACTOR II ASSAY	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.		Mon-Thurs. Store and ship frozen or on dry ice	

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Test Name	Tube Type	Specimen Requirements and Additional Information	Patient Preparation & Collection Timing	Specimen Storage and Transport	Clinical Information Required
FACTOR IX ASSAY	LIGHT BLUE	Plasma – 2.0 mL. Collect 1 full light blue top tube and mix immediately. Centrifuge and aliquot plasma to a transfer tube within 30 minutes of collection. Note: if light blue top tube is the first/only tube to be drawn, collect a small amount of blood in a discard tube before collecting the tube for this analysis. Collect in GDML PSC only.		Mon-Thurs. Store and ship frozen or on dry ice	
FACTOR V LEIDEN	LIGHT BLUE AND/OR LAVENDER (LOCATION DEPENDENT)	Central and Western Ontario - Plasma – 4.0 mL. Collect 1 full Lavender top tube and mix immediately. Eastern Ontario – Plasma and Whole Blood – 2.0 mL Plasma and 4.0 mL whole blood. Collect 1 light blue top tube and 1- 4.0mL Lavender tube. Centrifuge light blue top tube and aliquot plasma into a transfer tube and freeze. Do Not spin or separate Lavender top tube.		Central and Western Ontario Region - Store and ship refrigerated. In Eastern Ontario region store and ship plasma frozen on dry ice. Lavender top tube may be shipped at either ambient or refrigerated temperature.	
FACTOR V ASSAY	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.		Mon-Thurs. Store and ship frozen or on dry ice	
FACTOR V MUTATION		See Factor V Leiden			

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FACTOR VII ASSAY	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.		Mon-Thurs. Store and ship frozen or on dry ice	
FACTOR VIII (RELATED ANTIGEN)	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.		Mon-Thurs. Store and ship frozen or on dry ice	
FACTOR VIII (RISTOCETIN COFACTOR)	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.		Mon-Thurs. Store and ship frozen.	

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FACTOR VIII ASSAY	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.		Mon-Thurs. Store and ship frozen or on dry ice	
FACTOR VIII COFACTOR	LIGHT BLUE	Plasma – 2.0 mL. Centrifuge, separate and freeze within 30 minutes. Collect in GDML PSC only		Store and ship frozen on dry ice.	
FACTOR VIII INHIBITOR	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.		Freeze transport tubes and ship on dry ice.	
FACTOR X ASSAY	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.		Mon-Thurs. Store and ship frozen or on dry ice	

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Test Name	Tube Type	Specimen Requirements and Additional Information	Patient Preparation & Collection Timing	Specimen Storage and Transport	Clinical Information Required
FACTOR XI ASSAY	LIGHT BLUE	<p>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 2nd 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.</p>		Mon-Thurs. Store and ship frozen or on dry ice	
FACTOR XII ASSAY	LIGHT BLUE	<p>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 2nd 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.</p>		Mon-Thurs. Store and ship frozen or on dry ice	
FACTOR XIII ASSAY	2 LIGHT BLUE	<p>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 2nd 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.</p>		Mon-Thurs. Store and ship frozen or on dry ice	
FARMERS LUNG TEST		See Hypersensitivity Pneumonitis			

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FATTY ACIDS – FREE	SST	Serum – 2.0 mL. Collect, process, aliquot and freeze within 30 minutes of collection. Patient must be referred to a GDML PSC for collection.	Collect after a 12 hr fast.	Store and ship frozen on dry ice.	
FATTY ACIDS (Long Chain)	SST	Serum – 2.0 mL. Centrifuge and separate. Sample will be frozen upon receipt in the laboratory within 24 hrs. Not OHIP billable.	Collect after 12 hr fast.	Store and ship refrigerated until frozen by laboratory. Once frozen sample should remain frozen.	Include relevant clinical/family history
FECAL FAT – TOTAL		This test is no longer available			
FERRITIN	SST	Serum – 1.0 mL		Store and ship refrigerated	
FIBRINOGEN	LIGHT BLUE	Plasma – 5.0 mL. Sample should be refrigerated as soon as possible. If transport is delayed sample should be centrifuged and plasma aliquoted and frozen.		Store and ship refrigerated. If sample has been frozen ship on ice.	
FK506 (Testing will be referred by Gamma-Dynacare to the hospital where the transplant was performed)	2 LAVENDERS	Whole Blood – 5.0 mL. Mix well by inversion. Collect dedicated lavender top tubes.	The specimen must be a pre dose collection with the date and time of collection clearly stated.	Specimen must remain at room temperature. If there is a delay in shipping, store and ship refrigerated.	The date and time of collection must be clearly stated.
FLETCHER FACTOR	LIGHT BLUE	Plasma – 2.0 mL. Due to specimen integrity, patient MUST be referred to main lab for collection. Separate plasma and freeze within 30 min. Not OHIP billable.		Store at –70°C and ship frozen on dry ice. Mon.-Thurs	
FLUORESCENT TREPONEMA ANTIBODY (SYPHILLUS CONFIRMATION)	SST	Serum – 10.0 mL. Completed PHL test requisition required.			Indicate patient diagnosis on requisition
FLUORIDE (SERUM)	RED	Serum – 2.0 mL. Centrifuge & aliquot serum to transfer tube. Avoid contact with the rubber stopper of the collection tube. Plasma from EDTA tube also acceptable.		Store and ship refrigerated.	
FLUORIDE (URINE)	-	Urine – 24 h and Random – 50.0 mL. Not OHIP billable.		Store and ship refrigerated.	For 24 h urine state total volume in mL
FLUOXETINE (PROZAC, NORFLUOXETINE)	GREEN OR ROYAL BLUE (K2EDTA)	Plasma – 2.0 mL. Collect sample in a 10.0 mL green or royal blue top tube. Do NOT use serum separators. Centrifuge and aliquot plasma into a transfer tube.	Collect specimen just prior to morning dose.	Store and ship refrigerated.	

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FLURAZEPAM	-	Test no longer available			
FLUVOXAMINE	RED	Serum – 2.0 mL. Do NOT use gel separators. If collected in a GDML PSC specimen should be frozen and remain frozen during transit. If collected in physicians office ship to main lab to arrive within 24 hrs of collection.	Patient should be on drug at least 1 week prior to testing. Collect trough specimen just prior to next dose.	Store and ship refrigerated. Specimen must arrive within 24 hr and will be frozen upon receipt.	
FOLATE – RBC	LAVENDER	Whole Blood – 3.0 mL		Store and ship refrigerated	
FOOD IGG SCREEN, 120	SST/RED	Serum – 1.0 mL. Centrifuge and aliquot into a transfer tube. If required upgrade to 200 screen is possible as an add-on at additional cost.		Store and ship refrigerated.	
FOOD IGG SCREEN, 200	SST/RED	Serum – 1.0 mL. Centrifuge and aliquot into a transfer tube. This screen screens for 80 additional foods		Store and ship refrigerated	
FOOD IGG SCREEN, VEGETARIAN	SST/RED	Serum – 1.0 mL. Centrifuge and aliquot into a transfer tube.		Store and ship refrigerated	
FRAGILE X	3 LAVENDERS (3 – 4.0 mL or 2-7.0 mL tubes)	Whole Blood –10.0 mL. DO NOT separate plasma from the cells. Label with full patient name, a second unique identifier and date of birth and collection. Completed Molecular Genetics requisition must accompany the specimens. For Toronto and London physicians the form is available at www.path.queensu.ca/DNA_Diagnostics_-95851.html . For Ottawa clients an MOH “Requisition for DNA Testing” must be completed. Specimens collected at Main lab only before noon Mon-Thurs.		Maintain at room temperature and ship immediately after collection. Collect Mon.–Thurs only and not prior to a statutory holiday.	Fill in form completely with all information requested.
FRANCISELLA TULARENSIS AB	SST	Serum – 10.0 mL. Completed PHL form required. Contact local PHL to determine eligibility. Acute and convalescent samples may be required.			Indicate if patient is acute or convalescent.
FREE LIGHT CHAINS (KAPPA/LAMBDA)	SST	Serum – 1.0 mL. Centrifuge. Ratio may also be requested.		Store & ship refrigerated.	
FREE T3	SST	Serum - 1.0 mL		Store and ship refrigerated.	
FREE T4	SST	Serum - 1.0 mL		Store & ship refrigerated.	
FRISIUM		See Clobazam			
FRUCTOSAMINE	SST	Serum – 1.0 mL. Centrifuge & separate. Not OHIP billable.		Store and ship refrigerated.	

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FRUCTOSE (SEMEN)	-	Semen – 1.0 mL collected in sterile container using aseptic technique. Freeze within 30 min of collection. Collect in GDML PSC only.		Store and ship frozen on dry ice.	
FRUCTOSE (STOOL)	-	Stool – Random 5.0 g collected in sterile container.		Store and ship refrigerated.	Specify type of sugar.
FRUCTOSE (URINE)	-	Urine – Random 10.0 mL		Store and ship refrigerated.	Specify type of sugar.
FSH (FOLLICLE STIMULATING HORMONE FOLLITROPIN)	SST	Serum – 1.0 mL		Store and ship refrigerated.	
FUNGAL CULTURE and KOH	-	Fungal kit – Variable specimens including hair, nail and skin scrapings.			Indicate site of collection.
GABAPENTIN	RED	Serum – 1.0 mL. Do NOT use gel Separators.		Store and ship refrigerated.	Indicate time of last dose and collection
GAMMA-GLUTAMYL TRANSFERASE (GGTP)	SST	Serum – 1.0 mL			
GAMMOPATHY SCREEN	SST	Serum – 5.0 mL			
GAMMOPATHY SCREEN (URINE)	URINE	Urine – 24 h or Random – 50.0 mL		Do Not refrigerate.	
GASTRIN	SST	Serum – 2.0 mL. Separate & freeze within 30 min of collection. Collect in GDML PSC only	Collect after 12 h fast.	Store and ship frozen on dry ice. Mon-Thurs.	Indicate time of collection on tubes and requisition
GBS (GROUP B STREPTOCOCCUS)	-	Swab – Vaginal or vaginal/rectal in transport media. Indicate GBS on req and swab. If detection of Trichomonas, yeast or BV required second vaginal swab to be submitted.			
GC/CHLAMYDIA SWAB (PHL)	SWAB	Use Chlamydia Aptima swab specimen transport tube to collect specimen. Instructions are included in the kit.			Completed PHL requisition is required.
GC URINE (may be order in combination with Chlamydia urine)	-	Random Urine – Collect first 20-30 mL urine in a sterile urine container. Seal securely and submit to the laboratory. Sample must be received within 24 hrs and will be transferred to Aptima Urine collection tube upon receipt in the laboratory.	Patient must not have urinated within 1 hour prior to collection. Female patients should not cleanse labial area prior to collection.		
GENTAMICIN	SST	Serum – 1.0 mL	Pre (Immediately prior to next dose), Trough (30 minutes after IV) Post (1 hr post inject), Random (8-12 h level).	Store and ship refrigerated.	State time of last dose and collection, dosage and duration of dosage.

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GLIADIN ANTIBODIES PANEL (INCLUDE IGA AND IGG)	SST	Serum – 1.0 mL. Centrifuge and aliquot serum to a transfer tube.		Store and ship refrigerated.	
GLIADIN IGA ANTIBODY	SST	Serum – 1.0 mL. Centrifuge and aliquot serum to a transfer tube.		Store and ship refrigerated.	
GLIADIN IGG ANTIBODY	SST	Serum – 1.0 mL. Centrifuge and aliquot serum to a transfer tube.		Store and ship refrigerated.	
GLOBULIN	SST	Serum – 1.0 mL (Calculated if requested from Total Protein and albumin results)			
GLUCOSE 6 – PHOSPHATE DEHYDROGENASE SCREEN (G-6-PD)	LAVENDER	Whole Blood - 3.0 mL. One dedicated tube required		Store and ship refrigerated.	
GLUCOSE FLUID	GREY	Synovial fluid – 1.0 mL. Collect in grey top tube to prevent clotting and preserve glucose. Fluid collected in Green top tube also acceptable.			
GLUCOSE CHALLENGE (GESTATIONAL SCREEN)	SST/ GREY	Serum or Plasma – 7.0 mL. Administer 50g Glucodex to patient and collect blood 1h after administration.			Indicate collection time on sample and requisition.
GLUCOSE PLASMA	GREY	Plasma – 2.0 mL. Test available in Ottawa on serum only.	If fasting required, patient should fast for 12 hr.		Indicate fasting or random or time of collection on requisition as appropriate.
GLUCOSE QUALITATIVE (URINE)	-	Urine – Random – 10.0 mL		Store & ship refrigerated.	
GLUCOSE QUANTITATIVE (URINE)	-	Urine – 24 h – 50.0 mL		Store & ship refrigerated	For 24 h urine state total volume in mL
GLUCOSE SERUM	SST	Serum – 1.0 mL. Centrifuge within 4 h of collection.	If fasting required patient should fast for 12 hr.		Indicate fasting or random on requisition.
GLUCOSE TOLERANCE	GREY	Plasma – 4.0 mL. Patient must make an appointment and follow instructions for fasting. 75 g Glucodex load.	Collect samples at fasting, 2 h PC.		
GLUCOSE TOLERANCE (GESTATIONAL)	GREY	Plasma – 4.0 mL. Patient must make an appointment and follow instructions for fasting. 75 g Glucodex load.	Collect samples at fasting, 1 h PC and 2 h PC.		
GLYBURIDE	SST	Serum – 2.0 mL. Specimen must be collected, processed, aliquoted and frozen within 30 minutes of collection. Patient must be referred to GDML PSC for collection. Centrifuge, aliquot and freeze serum.		Store and ship frozen.	

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GM1 GANGLIOSIDE AB	RED	Serum – 2.0 mL. Collect blood aseptically without clot activators or separators. Centrifuge and separate into 2 X 1.0 mL aliquots. Freeze within 30 min of collection. Grossly hemolysed, lipemic or microbially contaminated specimens are not acceptable for analysis. Collect in GDML PSC only.		Store and ship frozen on dry ice.	
GOLD	SST	Serum – 3.0 mL. Centrifuge and transfer to aliquot tube. May also be performed on 24H urine.		Store and ship refrigerated.	
GOLD (URINE)	-	Test is no longer available			
GRAM STAIN	-	Slide – Air-dry. Do not spray with fixative. Note: Microscopy of stool specimens for WBC is not performed due to low sensitivity of this test.			
GROWTH HORMONE	SST	Serum – 1.0 mL. Centrifuge and aliquot. Sample will be frozen upon receipt in the laboratory within 24 hrs of collection.	Collect after 12 h fast.	Store and ship refrigerated until frozen in laboratory. Once frozen sample should remain frozen. Mon-Thurs.	
HALOPERIDOL (HALDOL)	ROYAL BLUE (NO ADDITIVE)	Serum – 1.0 mL. To monitor therapy, collect through level just prior to next dose. Do not use serum separator. Separate immediately. Sample will be frozen within 24 hrs of collection upon receipt in the laboratory.	Collect trough specimen just prior to administration of next dose.	Mon-Thurs. Store and ship refrigerated until frozen. Once frozen sample should remain frozen.	
HANTAVIRUS SEROLOGY	SST	Serum – 10.0 mL. Completed PHL requisition required.		Store and ship refrigerated.	
HAPTOGLOBIN	SST	Serum – 0.5 mL		Store and ship refrigerated.	
HBV-DNA	SST	Serum – 2.5 mL. Separate within 30 min of collection into tightly sealed transfer tube. Label tube with full patient name and date of birth. Copy of PHL requisition must accompany specimen. Collect in GDML PSC only.		Follow Transportation of Dangerous Goods Regulations. Ship frozen on dry ice.	
HCG		See Beta HCG			
HDL CHOLESTEROL	SST	Serum – 1.0 mL	Collect after 12 –14 h fast.		Indicate patient age & sex.
HEINZ BODIES	-	Test is no longer available. Recommended replacement test is G6PD screen.			

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HELICOBACTER PYLORI AB	SST	Serum – 2.0 mL. Completed Reference Bacteriology Laboratory Form required.			
HELICOBACTER PYLORI (BREATH TEST)	UREA BREATH KIT	Breath – 2 samples collected. First sample is taken followed by dosing with urea. Wait 30 min and then second sample is collected. See detailed instructions in the kit. Not OHIP billable.	Patient must fast (including water) 4 hours prior to test. Not suitable for children under 6 years. Medication Restrictions apply – No proton pump inhibitors for 3 days prior to test. No Histamine H2 Receptors Antagonists 1 day prior to test. No antibiotics 4 weeks prior to test. No Bismuth Preparations 2 weeks prior to test.		
HEMATOCRIT		See Complete Blood Count			
HEMOCHROMATOSIS	2 LAVENDERS	Whole Blood – 8.0 mL. Collect 2 lavender tops. Sample is stable 5 days at room temperature. For London and Toronto area clients - Include with the samples a completed KGH DNA requisition or a photocopy of the original completed OHIP requisition with physician signature visible. For Ottawa area clients a completed MOH Requisition for DNA Testing is required.		Store and ship at room temperature. Sample may arrive at reference lab Mon-Thurs only. Collect specimen Mon-Thurs only and not prior to a statutory holiday.	Ensure family history and/or essential clinical information is provided
HEMOGLOBIN		See Complete Blood Count			
HEMOGLOBIN (PLASMA)	GREEN	Plasma – 3.0 mL. Centrifuge at 2000 rpm to minimize hemolysis			
HEMOGLOBIN – A2	LAVENDER	Whole Blood – 3.0 mL		Store and ship refrigerated.	
HEMOGLOBIN – FETAL	LAVENDER	Whole Blood – 4.0 mL. Collect a dedicated lavender top tube. Mix well by inversion.		Store and ship refrigerated.	
HEMOGLOBIN A1C	LAVENDER	Whole Blood – 3.0 mL. Collect one full dedicated tube.		Store and ship refrigerated.	
HEMOGLOBIN ELECTROPHORESIS	LAVENDER	Whole Blood – 3.0 mL. Mix well by inversion.		Store and ship refrigerated.	

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HEMOPEXIN	SST	Serum – 3.0 mL. Not OHIP billable. Also acceptable is 3.0 mL whole blood collected in Lavender tube.		Store and ship refrigerated. Sample must be received by testing lab within 48 hrs of collection.	
HEMOSIDERIN (URINE)	-	Urine Random- 8.0 mL		Store and ship refrigerated.	
HEPARIN	LIGHT BLUE	Plasma – 1.0 mL. Not OHIP billable. Please instruct patient to have blood collected at a Gamma-Dynacare main lab facility. Specimen must be centrifuged, separated and frozen within 30 minutes at –70 degrees C. Platelet poor plasma is required.		Mon.-Thurs Store at –70°C and ship frozen on dry ice.	Specify type of heparin being administered to patient.
HEPARIN DEPENDENT PLATELET ANTIBODY	LIGHT BLUE	Plasma – 3.0 mL. Separate plasma and freeze within 30 minutes of collection. Not OHIP billable. Collect in GDML PSC only.		Store and ship frozen on dry ice.	
HEPATITIS A IgM ANTIBODY (ANTI-HAV IgM)	SST	Serum – 1.0 mL. Dedicated tube required		Store and ship refrigerated	
HEPATITIS A TOTAL ANTIBODY (ANTI-HAV)	SST	Serum – 1.0 mL. Dedicated tube required		Store and ship refrigerated	
HEPATITIS B (DNA)		See HBV-DNA			
HEPATITIS B CORE ANTIBODY (ANTI-HBc)	SST	Serum – 1.0 mL. Dedicated tube required		Store and ship refrigerated	
HEPATITIS B CORE IgM ANTIBODY (ANTI-HBc IgM)	SST	Serum – 1.0 mL. Dedicated tube required		Store and ship refrigerated	
HEPATITIS B SURFACE ANTIBODY (ANTI-HBs)	SST	Serum – 1.0 mL. Dedicated tube required		Store and ship refrigerated	
HEPATITIS B SURFACE ANTIGEN (HBsAg)	SST	Serum – 1.0 mL. Dedicated tube required		Store and ship refrigerated	
HEPATITIS BE ANTIBODY (ANTI-Hbe)	SST	Serum – 1.0 mL. Dedicated tube required		Store and ship refrigerated	
HEPATITIS BE ANTIGEN (Hbe Ag)	SST	Serum – 1.0 mL. Dedicated tube required		Store and ship refrigerated	
HEPATITIS C (HVC, HBC)	SST	Serum – 1.0 mL. Dedicated tube required		Store and ship refrigerated	

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HEPATITIS C VIRUS AB RNA	SST	Serum – 1.5 mL. Contact PHL before collection. Centrifuge and aliquot into transfer tube with tight fitting lid and freeze within 30 min of collection. Collect in a GDML PSC only.		Store and ship frozen on dry ice.	Completed PHL form required. Provide status of liver function test and current treatment information. Indicate if IV drug user
HEPATITIS D AB	SST	Serum – 2.0 mL. Completed Viral Study form required.			Provide patients Clinical and Hepatitis history.
HEPATITIS E VIRUS AB	SST	Serum – 10.0 mL. Completed PHL form required.			Indicate patient travel history on requisition
HEPATITIS - PRENATAL	SST	Serum – 1.0 mL. Dedicated tube for PHL required.		Store and ship refrigerated	
HEROIN (URINE)	-	Urine – Random - 20.0 mL. Must be ordered as Toxicology screen.		Store and ship refrigerated.	
HERPES SIMPLEX VIRUS AB IGG/IGM – DIAGNOSIS/IMMUNITY	SST	Serum – 3.0 mL. Test is performed to determine acute/diagnostic viral status. Centrifuge. Results are reported directly to the client by PHL		Store and ship refrigerated.	Indicate any relevant clinical information (fever, rash, travel history, exposure, tick bite, etc.)
HERPES SIMPLEX VIRUS DETECTION (CULTURE)	VIRUS COLLECTION KIT	Kit – Collect in virus collection kit following instructions provided in the kit		Store and ship as per kit instructions.	
HERPES VIRUS TYPE 6 AB	SST	Serum – 10.0 mL. Completed PHL form required.			
HISTAMINE	LAVENDER	Plasma – 1.0 mL. Collect in pre-chilled tube and place immediately on ice. Centrifuge, aliquot into 2 tubes and freeze plasma within 30 minutes. Avoid hemolysis. Collect in GDML PSC only.		Store and ship frozen on dry ice. Sample must remain frozen until analysis. Collect Mon.-Thurs only.	
HISTOLOGY – DERMATOPATHOLOGY – SURGICAL PATHOLOGY	-	Tissue – Collect in 30 mL formalin. Please ensure appropriate ratio of sample to preservative. See Collection Instructions for details on optional containers available. Completed Histopathology requisition required.			Site of Biopsy must be indicated on requisition and sample container. Provide any relevant clinical history.

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HISTOLOGY – IMMUNOFLUORESCENT STAINING OF TISSUE	-	Tissue must be received in designated transport media provided by special request from Histology department. Please call Brampton or Ottawa main lab and ask for Histology department. Allow 48 h for delivery of container.		Media and specimen must be refrigerated for storage and shipping.	Site of Biopsy must be indicated on requisition and sample container. Provide any relevant clinical history.
HISTOPLASMA CAPSULATION ANTIBODY		See Histoplasma Ab			
HISTOPLASMA AB	SST	Serum –10.0 mL. Completed PHL Requisition required.			Indicate if patient is acute or convalescent. State viral history.
HIV AB	-	PHL HIV KIT – Collect samples and complete Public Health Laboratories requisition included in HIV kit.			
HLA B27	2 LAVENDER	Whole Blood – 3.0 mL. Do NOT centrifuge or aliquot.		Keep at room temperature. Mon-Thurs collection only. Do not collect prior to a long weekend. Must arrive at lab within 24 h of collection & by 3 p.m.	
HLA TYPING	-	Test is no longer available. Please contact us for testing lab phone numbers.			
HOLTER MONITOR	-	Call Main laboratory to book an appointment.			
HOMOCYSTEINE	LAVENDER	Plasma – 1.0 mL. Centrifuge without gel separator and aliquot within 1 h after collection. Avoid buffy coat contamination. Not OHIP billable.	Collect after 8 h fast	Store and ship refrigerated.	
HOMOCYSTEINE, RANDOM URINE	URINE	Random Urine – 20.0 mL. Collect and freeze within 30 minutes of collection. Collect in GDML PSC only.		Store and ship frozen on dry ice.	
HOMOVANILLIC ACID (24 H URINE)	-	Urine - 24 hr or Random – 50.0 mL aliquot for 24 h urine. Preserve 24 hr urine with 25.0 mL of 6 N HCL. For random urine preserve by freezing specimen within 24 hrs. Sample will be frozen upon receipt in the laboratory.	3 days prior to and during collection, the patient must not ingest vanilla, chocolate, tomatoes, coffee, tea, colas, bananas, aspirin or drugs containing aspirin.	Store and ship refrigerated until frozen. Once frozen sample should remain frozen.	For 24 h urine state total volume in mL. Date of birth required.

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HOMOGENISTIC ACID (RANDOM URINE)	-	Urine - Random - 10.0 mL FRESH URINE. Collect and freeze urine within 30 min of collection. Collect in GDML PSC only.		Store and ship frozen on dry ice	
HUMAN PAPILLOMAVIRUS (HPV)	-	See instructions under Special Collection Instructions. Not OHIP billable.			
HUMAN T CELL VIRUS (HTLV I, HTLV II, HTLV III)	SST	Serum – 10.0 mL. Use VIRUS kit from Public Health Laboratories. Request test on completed PHL form.			
HUMAN IMMUNODEFICIENCY HTL3	SST	Serum – 10.0 mL. Collect dedicated SST and centrifuge.		Store and ship refrigerated	Submit PHL form with specimen.
HYDROCHLOROTHIAZIDE (URINE)		This test is no longer available.			
HYDROXYINDOLACETIC ACID – 5 HIAA (URINE)		Urine –Random or 24 hr – 50.0 mL aliquot of a 24 hr urine. Collect 24 hr urine in a container with 25 mL 6 N HCL and aliquot. Urine is to be aliquoted into two vials if possible and frozen upon receipt at the main lab. Keep away from heat or direct sunlight. Avoid freeze thaw cycles.	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. Once frozen specimen should remain frozen until testing is performed.	State total volume for a 24 hr urine
HYDROXYPROGESTERONE 17 (17-OH PROGESTERONE)	SST	Serum - 1.0 mL. Centrifuge and aliquot serum into transfer tube.		Store and ship refrigerated.	
HYDROXYPROGESTERONE 17 OH – INFANT	SST	Serum – 1.0 mL. Centrifuge and aliquot serum into transfer tube. Specimens on infants less than 6 months of age are sent to a reference lab.		Store and ship refrigerated.	

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HYDROXYPROLINE FREE (URINE)		Urine – 24 hr or Random – 50 mL aliquot. Collect urine in a urine container without preservative.	A controlled diet free of gelatin and low in collagen is required. Meat, fish, sweet products (jam or ice cream) must be avoided for 1 day prior to and during collection. Eggs and milk are not prohibited.	Store and ship refrigerated.	For 24 hr urine state total volume in mL.
HYDROXYPROLINE TOTAL (URINE)		Urine – 24 hr or Random – 50 mL aliquot. Collect urine in a urine container without preservative.	A controlled diet free of gelatin and low in collagen is required. Meat, fish, sweet products (jam or ice cream) must be avoided for 1 day prior to and during collection. Eggs and milk are not prohibited.	Store and ship refrigerated.	For 24 hr urine state total volume in mL.
HYPERSENSITIVITY PNEUMONITIS (Aspergillus 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.

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