

ALPHABETICAL LISTING OF INDIVIDUAL TESTS

It is suggested that all tests drawn in serum separation tubes be allowed to clot for 20-30 minutes and then spun down for 20 minutes to allow for complete separation of serum from cells. For tests which are FROZEN, the specimen should be spun down, serum or plasma removed, placed in the proper holding vial and FROZEN prior to courier pick-up. Tests with an (*) are referred to another laboratory for testing.

SUNQUEST TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
BT	86900 86901	ABO and Rh (Blood type and Rh)	7 ml pink or 10 ml; GLASS tube; DO NOT USE SERUM SEPARATION TUBE.	P
ACETA	G0480	Acetaminophen (Tylenol)	1 ml serum; avoid hemolysis. DO NOT USE SERUM SEPARATION TUBE.	R
XACHR	83519	Acetylcholine Receptor Binding Antibody*	1 ml serum, separate serum into plastic tube. Refrigerate.	SS
XACP	84060	Acid Phosphatase* Total	1.5 ml serum, separate cells ASAP. CRITICAL FROZEN.	SS
XAPCR	85307	Activated Protein C* Resistance	1 ml citrated plasma; separate and FREEZE IMMEDIATELY.	B
XACLYP	82017	Acylcarnitine*	Draw blood in a green sodium heparin tube, centrifuge as soon as possible after collection, separate and send 1.0 plasma frozen in a screw-capped plastic vial, FREEZE immediately after separation.	GN
XADABR	86255	Adrenal Antibodies screen*	1 ml serum, refrigerate.	SS
YACTH	82024	Adrenocorticotrophic Hormone (ACTH)*	1 ml EDTA plasma. Pre-chill tube, centrifuge, separate and FREEZE within 15 minutes of draw. CRITICAL FROZEN.	L
AFFIRM	87480 87510 87660	AFFIRM VP	Tests for <i>Gardnerella vaginalis</i> , <i>Candida species</i> and <i>Trichomonas vaginalis</i> . Collect using the Affirm Transport system.	VP
ALT	84460	Alanine Aminotransferase (ALT) (SGPT)	1 ml serum. Avoid hemolysis	SS
XLTX	86003	Alastatx Latex-Specific IgE*	1.0 ml serum for first allergen; 0.1 ml serum for each additional allergen; refrigerate ASAP	SS
ALB	82040	Albumin, Serum	1 ml serum; minimum 0.5 ml serum	SS
XPRVNT	80375	Albuterol (Proventil)*	2 ml serum, refrigerate. DO NOT USE SERUM SEPARATION TUBE.	R

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
ETOH	G0480	Alcohol, Ethyl, Blood	5 ml whole blood; do not remove cap; cleanse venipuncture site with soap and water; DO NOT prep with alcohol; minimum 1 ml whole blood	GY
YALCSC	84600	Alcohol screen, toxic*	2 ml whole blood; collect one gray-top Potassium Oxalate/Sodium Fluoride tube or one plain red-top tube. Also acceptable: one SST tube. Serum tube (plain red top or SST): Let specimen clot for 30 minutes and centrifuge to separate serum from cells within one hour of collection. Transfer serum to a plastic transport tube, cap immediately and refrigerate. DO NOT USE ALCOHOL SWABS, USE BETADINE SEPP.	GY
XALDO	82085	Aldolase*	0.5 ml serum, separate and refrigerate. Avoid hemolysis.	SS
XALDOS	82088	Aldosterone, Serum*	1 ml serum, separate and freeze.	SS
XUALDO	82088	Aldosterone, Urine*	24 hr. urine specimen, refrigerate during collection	24U
XBAP	84075	Alkaline Phosphatase Bone Specific*	1 ml serum, separate and refrigerate serum within 2 hours of collection.	SS
XALKPI	84075 84080	Alkaline Phosphatase Isoenzymes*	2 ml serum from fasting patient. Avoid hemolysis	SS
XAATP	82103	Alpha-1-Antitrypsin*	1 ml serum	SS
AFPMAT	82105	Alpha-fetoprotein (Maternal) (AFP Maternal)	1 ml serum, avoid hemolysis; state gestational age, weight, race, multiple pregnancies, IDDM	SS
AFPMTL INHA BHCGT UE3	82105 86336 84702 82677	Alpha-fetoprotein Inhibin A HCG UE3 (Estriol)	1 ml serum, avoid hemolysis; state gestational age, weight, race, multiple pregnancies, IDDM Referred to as Quad Test. INHA-in house	SS
AFPTM	82105	Alpha Fetoprotein (non-maternal)	1 ml serum; minimum 0.5 ml. Avoid hemolysis	SS
XALPRZ	80346 G0480	Alprazolam (Xanax)*	4 ml serum; minimum 1.0 ml. DO NOT USE SERUM SEPARATION TUBE (SST).	R
ALT	84460	ALT (SGPT)	1 ml serum; avoid hemolysis and lipemia	SS
XALUM	82108	Aluminum*	2 ml serum; dark blue tube (no additives) separate serum into plastic vial ASAP; refrigerated.	DBN
XAMIK	80150	Amikacin (Amikin) *	0.5 ml serum; separate and refrigerate serum within 2 hours. Specify whether specimen is peak, trough or random level. DO NOT USE SERUM SEPARATION TUBE (SST).	R

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XAMIPK	80150	Amikacin, Peak*	30 to 45 minutes after IV dose or 1–2 hours after IM dose for peak. DO NOT USE SST.	R
XAMITR	80150	Amikacin, Trough*	Collect trough just before next dose. DO NOT USE SST	R
XAMAPQ	82139	Amino Acid Fractionation Quant.*	1 ml FROZEN Green Top heparinized plasma; separate plasma from cells and FREEZE IMMEDIATELY . Avoid hemolysis. Clinical indication needed for appropriate interpretation.	GN
	82139	Amino Acid Urine, Quant.*	10 ml random urine – first morning preferred. CRITICAL FROZEN in 2 transfer tubes	U
XURALA	82135	Aminolevulinic Acid (ALA)*	5 ml aliquot well-mixed random or 24 hour urine. 24-hour specimen should be refrigerated during collection. Store @ 2-8°C. 24-hour time and volume is required.	24U
THEOPH	80198	Aminophylline (Theophylline)	1 ml serum; DO NOT USE SERUM SEPARATION TUBE; State hours post med	R
XAMIO	80299	Amiodarone*	1 ml serum; refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XAMTRP	G0480 80335	Amitriptyline (Elavil)* (includes Nortriptyline)	1 ml serum; DO NOT USE SERUM SEPARATION TUBE. Separate and refrigerate within 8 hours.	R
NH3	82140	Ammonia (NH3)	Send patient to MOB at Beaumont Hospital-Dearborn. Specimen MUST be spun, poured over and FREEZE immediately or delivered within 30 minutes on ice to Beaumont Dearborn Laboratory	GN
	80335	Amoxapine (Ascendin)* (includes 8-hydroxy amoxapine)	3 ml serum; DO NOT USE SERUM SEPARATION TUBE. Separate and refrigerate.	R
XAMPCN	80307/ G0480	Amphetamine, Quant., Urine*	Clinical - 10 ml random urine. Refrigerate. Forensic - 20 ml random urine	U
AMY	82150	Amylase, Serum	1 ml serum; minimum 0.5 ml (avoid hemolysis)	SS
RUAMY TUAMY	82150	Amylase, Urine, random Amylase, Urine, timed	15 ml aliquot of well-mixed 2 hr. urine collection (state total volume) or send entire specimen	U 24U
XAMYIS	82150 x 2	Amylase Isoenzymes* (includes total Amylase, Isoenzymes)	2 ml serum, separate and refrigerate Macroamylase performed if Amylase is >115 U/L	SS
XANS	82542	Anabolic Steroids*	50 mL urine; 25 mL minimum; refrigerate.	UR

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
ANA	86038	ANA Screen (Anti Nuclear Antibody)	1 ml serum, refrigerate. Titer and pattern included if indicated.	SS
XANDRO	82157	Androstenedione*	1 ml serum, separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE.	R
X3AG	82154	Androstenedione-glucuronide (A-diolG)*	1 ml serum or EDTA plasma. Separate serum or plasma from cells and refrigerate.	R
YACE	82164	Angiotensin-1-Converting Enzyme (ACE)*	1 ml serum, refrigerate. Avoid hemolysis. Refrigerate within 2 hours of collection.	SS
ABID	86870	Antibody Identification	7 ml pink or 10 ml glass tube of clotted blood; DO NOT USE SERUM SEPARATION TUBE	P
ABT	86886	Antibody Titer	7 ml pink or 10 ml GLASS tube of clotted blood; DO NOT USE SERUM SEPARATION TUBE	P
ABSCN2	86850	Antibody Screen (Antibody Identification is ordered if positive)	7 ml pink or 10 ml serum; DO NOT USE SERUM SEPARATION TUBE; Use GLASS red top	P
AGT	86905	Antigen Type	7 ml pink or 10 ml serum; DO NOT USE SERUM SEPARATION TUBE; Use GLASS red top. Specify which antigen to be tested for.	P
XAT3AC	85300	Antithrombin III Activity*	1 ml FROZEN citrated plasma; CRITICAL FROZEN	B
XAT3AG	85301	Antithrombin III Antigen*	1 ml FROZEN citrated plasma; CRITICAL FROZEN	B
YACA	86147 x 3	Anti-Cardiolipin Antibodies* IgG/IgA/IgM	1 ml serum, separate and refrigerate ASAP @ 2-8° C.	SS
XADH	84588	Anti-Diuretic Hormone* (ADH)	3 Lavender Tops (6.0 ml) EDTA plasma. Separate and freeze plasma immediately. CRITICAL FROZEN. Do not thaw. Separate sample must be submitted when multiple tests are ordered.	3L
DNADS	86225	Anti-DNA Antibody Double Stranded (Titer performed if positive)	Minimum 0.5 ml serum, separate and refrigerate	SS
DNADST	86225			
YENA	86235 x 2	Anti-ENA Antibody (includes Anti-RNP, Anti-Sm)*	1 ml serum, separate and refrigerate. Specimen stability 48 hours refrigerated.	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XHISAB	83516	Anti-Histone Antibodies*	1 ml serum, separate and refrigerate.	SS
YHUAB	86255	Anti HU Antibody*	1 ml serum; separate and refrigerate	SS
YTPAA	86376	Anti-Microsomal Antibody* (Thyroid Peroxidase Antibody)	1 ml serum, separate and refrigerate within 8 hours of collection	SS
AMA	86255	Anti-Mitochondrial Antibody (AMA)	1 ml serum; separate and refrigerate	SS
AMATIT	86256	(Titer performed if positive)		
XAMHSP	82397	Anti Mullerian Hormone*	1 ml serum; separate and refrigerate	SS
XNCAB	86255x2	Anti-Neutrophil Cytoplasmic Antibodies* P or C pattern will be determined if ANCA is pos.	1 ml serum, separate and refrigerate	SS
YANRI	86255	Anti RI Antibody*	1 ml serum; separate and refrigerate	SS
YRNP	86235	Anti-RNP*	1 ml serum; separate and refrigerate, within 2 hours of collection	SS
YCOIGA	86769	Anti SARS-CoV 2 IgA	1 mL serum; separate and refrigerate	SS
YCOIGG	86769	Anti SARS-CoV 2 IgG	1 mL serum; separate and refrigerate	SS
YSCL70	86235	Anti-Scleroderma Antibodies* (Scl-70)	1 ml serum; separate and refrigerate.	SS
ASMA	86255	Anti-Smooth Muscle Antibodies (ASMA)	1 ml serum; separate and refrigerate.	SS
ASMAT	86256	(Titer performed if positive)		
YATG	86800	Anti-Thyroglobulin Antibody*	1 ml serum; refrigerate within 2 hours	SS
YANYO	86255	Anti YO Antibody*	1 ml serum; separate and refrigerate	SS
XAPOA1	82172	Apolipoprotein A1 (APOA1) *	1 ml serum; separate and refrigerate	SS
XAPOB	82172	Apolipoprotein B APOB*	1 ml serum; separate and refrigerate	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
	82172 x2	Apolipoprotein (A1, B, Ratio)*	1 ml serum; separate and refrigerate. Collected after 12-16 hr FAST	SS
XARSEN	82175	Arsenic, Blood*	7 ml Dark Blue tube (EDTA) whole blood. Refrigerate.	DB
XTUARS	82175	Arsenic, Urine* Timed	10 ml refrigerated aliquot of 24-hour urine collected in plastic container or Random urine specimen. Acidify sample. Avoid seafood consumption 48 hours prior to collection.	24U
XUARS	82175	Arsenic, Urine* Random	Random Urine	U
		Arthritis Panel	Not a panel. Order Individual tests.	
XVITC	82180	Ascorbic Acid* (Vitamin C)	2 ml; green top (lithium heparin) tube; separate plasma; PROTECT FROM LIGHT. CRITICAL FROZEN. Patient should fast overnight, and refrain from Vitamin C intake for 24 hours.	GN
	80335	Asendin* (Amoxapine)	See Amoxapine; plain red top tube; spin and separate	R
STRPZ	86063	ASO Screen (titer performed if positive)	See Streptozyme Screen	SS
AST	84450	Aspartate Aminotransferase (AST)	See SGOT (AST) Avoid hemolysis.	SS
XASPAB	86606	Aspergillus Ab (CF/ID)*	1 ml serum; separate from cells within 2 hours and refrigerate.	SS
SALIC	G0480	Aspirin (Salicylate)	See Salicylate	R
AST	84450	AST	See SGOT (AST) ; 1 ml serum	SS
XLRZEP	G0480	Ativan* (Lorazepam)	0.5 ml serum; DO NOT USE SERUM SEPARATION TUBE. Separate and refrigerate.	R
XNTRIP	80335/ G0480	Aventyl* (Nortriptyline) (Pamelor)	1 ml serum; draw in plain red-top tube, DO NOT USE SERUM SEPARATION TUBE; separate and refrigerate within 2 hrs.	R
	80307	Barbiturates, Qual.* (See Drug Screen Panels)	Clinical - 10 ml random urine; refrigerate Forensic – 20 ml random urine; refrigerate	U
XCAT	86611 x 2	Bartonella Ab Panel* IgG/IgM (Cat Scratch)	1 ml serum; separate serum from cells within 2 hours; refrigerate. Indicate acute or convalescent sample.	SS
UPE RUPE	84156 84166	Bence Jones Protein (Protein electrophoresis, and IFE if indicated, urine)	10 ml random urine or entire 24 hr urine specimen.	U/24U

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	80307/ G0480	Benzodiazepines, Qual. (BDP) See Drug Screen Panels	Clinical - 10 ml random urine; refrigerate Forensic – 20 ml random urine; refrigerate	U
XB2GP	86146 X3	Beta 2 Glycoprotein* IgG, IgA, IgM	1 ml serum; 0.5 ml minimum; separate and refrigerate	SS
XB2MIC	82232	Beta 2 Microglobulin*, Serum/Plasma	1 ml serum; separate and refrigerate	SS
XUB2MI	82232	Beta 2 Microglobulin*, Urine	4 ml urine; patient should void, then drink a full glass of water and provide another sample within an hour. Adjust pH immediately – sample will be rejected if pH is not between 6-8. Refrigerate	U
XB2T	86335	Beta 2 Transferrin*	1 ml serum; 0.5 ml minimum; separate and refrigerate	SS
HCGTM	84702	Beta HCG Chorionic Gonadotropin (Tumor Marker)	1 ml serum; specify if Tumor Marker	SS
TCO2	82374	Bicarbonate (CO2)	1 ml serum; DO NOT REMOVE TUBE CAP until immediately before assaying. Assay should be run within 24 hours of venipuncture. Avoid hemolysis.	SS
XBAFRA	82542	Bile Acids, Total* and Fractionated	1 ml serum; separate serum; room temperature. Overnight fasting preferred.	SS
	82239	Bile Acids, Total	1 ml serum; patient must fast minimum of 8 hours prior to collection. Refrigerate	SS
DBILI	82248	Bilirubin, Direct (Conjugated)	1 ml serum; avoid hemolysis; avoid exposure to light; min. 0.5 ml	SS
IBILI	82247 82248	Bilirubin, Neonatal (includes Total and Direct)	1 full amber microtainer; avoid exposure to light	SS
TBILI	82247	Bilirubin, Total	1 ml serum; minimum 0.5 ml; avoid hemolysis; avoid exposure to light	SS
IBILI	82247 82248	Bilirubin, Total, Direct, Indirect (Unconjugated)	1 ml serum; avoid hemolysis; protect from light; minimum 0.5 ml	SS
YISBKG	87799	BK Virus, Quant* serum	1 ml serum; separate and refrigerate	SS
YIUBKG	87799	BK Virus, Quant* urine	2 ml urine, refrigerate	U

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XBLSTO	86612 x2	Blastomyces Antibodies* by CF/ID	1 ml serum; separate ASAP; refrigerate. Sample must be labeled acute or convalescent.	SS
		Bleeding Time - Simplate	Test replaced with Platelet Function Assay	
BC	87040	Blood Culture	2-10 ml whole blood collected in Bact/Alert Aerobic/Anaerobic bottle set	BC
XETOHC	80320	Blood Ethanol*, Forensic	7ml sodium fluoride (gray top) or heparinized whole blood tightly capped. Must have security seal over top of tube. Use non-alcohol swabs during collection; Refrigerate; Appropriate Chain of Custody required	GY
BNP	83880	B-Type Natriuretic Peptide	1 full lavender top tube ONLY!	L
XBAP	84075	Bone Alkaline Phosphatase*	See Alkaline Phosphatase – Bone *1 ml serum; refrigerated	SS
BORPCR	87798 x3	Bordetella Pertussis PCR Panel*	NP swabs in viral transport media. Sterile container for nasal aspirates 1.0 ml. Sterile container for nasal washed 1.0 ml.	VT
BUN	84520	BUN (Blood Urea Nitrogen)	1 ml. serum; minimum 0.5 ml.	SS
XBUP	80338/ G0480	Bupropion*	2 ml FROZEN serum; DO NOT USE SERUM SEPARATION TUBE. Freeze serum within 2 hours. CRITICAL FROZEN.	R
XBUPCO	80307	Buprenorphine*, urine	10 ml random urine	U
YCPEP	84681	C-Peptide*	1 ml FROZEN serum; separate and freeze within 1 hour after collection – CRITICAL FROZEN. 10 hour fasting specimen required	SS
CRP	86140	C-Reactive Protein (CRP)	1 ml serum; minimum 0.5 ml; avoid lipemic specimens	SS
HSCRCP	86141	Cardiac Risk CRP (CRP Ultra Quant)	1 ml serum; separate and refrigerate	SS
XC1EIA	86161	C1 Esterase Inhibitor - Qualitative (Functional)*	2 ml FROZEN serum; separate from cells and FREEZE IMMEDIATELY. CRITICAL FROZEN.	SS
XC1EIQ	86160	C1 Esterase Inhibitor - Quantitative (non-functional)*	1 ml serum; separate and refrigerate	SS
XC1QBI	86332	C1Q Binding Immune Complex *	1 ml serum; separate and freeze within 2 hours of collection; CRITICAL FROZEN	R

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	86160	C1Q Complement* (Complement Component C1Q)	1 ml serum; separate and refrigerate.	R
XC2	86160	C2 Complement*	1 ml serum; separate and refrigerate within 1 hour of collection.	R
C3	86160	C3 Complement	1 ml serum; separate and refrigerate; minimum 0.5 ml	SS
C4	86160	C4 Complement	1 ml serum, separate and refrigerate; minimum 0.5 ml	SS
	86160	C5 Complement*	1 ml serum; separate and refrigerate; minimum 0.5 ml	R
	86160	C6 Complement*	2ml serum; separate and freeze.	SS
C153	86300	CA 15-3	1 ml serum; separate and refrigerate.	SS
C199	86301	CA 19-9 (Carbohydrate antigen 19-9)	1 ml serum; separate and refrigerate.	SS
CA125	86304	CA125	1 ml serum; separate and refrigerate, minimum 0.5 ml	SS
XC2729	86300	CA 27.29	1 ml serum; separate and refrigerate.	SS
XCAD	82300	Cadmium, Blood*	7 ml whole blood; use trace metal tube with EDTA (royal blue top) – refrigerate	DB
XURCAD	82300	Cadmium, Urine*	Random or 10 ml aliquot from a well-mixed 24 hour collection @ 2-8°C. Specimen must be collected in a plastic container and refrigerated during collection.	24 U
YCAFFE	80299	Caffeine Level*	2 ml serum; draw in plain red-top tube, let specimen clot 30-60 minutes, refrigerate within 2 hours of collection. DO NOT USE SERUM SEPARATION TUBE	R
XCLCTN	82308	Calcitonin*	1 ml frozen serum; allow to clot, centrifuge and FREEZE IMMEDIATELY . Avoid hemolysis and lipemia. CRITICAL FROZEN .	SS
ICA	82330	Calcium, Ionized	1.0 ml serum; DO NOT UNCAP , centrifuge within 1 hour of venipuncture and submit unopened tube to lab	R
CA	82310	Calcium, Serum	1 ml serum; minimum 0.5 ml	SS
TUCA	82340	Calcium, Urine, 24 hour	24 hr. urine specimen collected with no preservative; (Specimen must be acidified in lab)	24U

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XCALPT	83993	Calprotectin*	Collect random stool sample; 1.5gm unpreserved stool; refrigerate	ST
	80307	Cannabinoid (Marijuana) Screen (THC) See Drug Screen Panel	10 ml random urine; protect from light; refrigerate; minimum 5 ml random urine	U
XCANAB	86628	Candida Antibodies*	1 ml serum; separate and refrigerate.	SS
CANDS	87081	Candida Screen	Amies swab (blue); State site of collection	
CARBAM	80156	Carbamazepine (Tegretol)	1 ml serum; state time post dose; DO NOT USE SERUM SEPARATION TUBE; State hours post med	R
XFCARB	80157	Carbamazepine (Tegretol) Free*	1 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
TCO2	82374	Carbon Dioxide (CO2)	1 ml serum; DO NOT REMOVE CAP ; avoid hemolysis	SS
COHB	82375	Carbon Monoxide (Carboxyhemoglobin)	Green Lithium, whole blood; DO NOT REMOVE CAP	GNL
CEA	82378	Carcinoembryonic Antigen (CEA)	1 ml serum; avoid hemolysis; minimum 0.5 ml	SS
YACA	86147 x3	Cardiolipin Antibodies* IgG, IgM, IgA	1 ml serum; separate and refrigerate within 2 hours of collection. Avoid hemolysis.	SS
XCARNT	82379	Carnitine* (Free and Total)	1 ml plasma, Green (Sodium or Lithium Heparin) separate and FREEZE IMMEDIATELY. CRITICAL FROZEN	GN
XCAT	86611 x 2	Cat Scratch Disease Abs, Bartonella Ab Panel* IgG/IgM	1 ml serum; separate serum from cells within 2 hours; refrigerate. Indicate acute or convalescent sample.	SS
XCARTN	82380	Carotene*, BETA	2 ml serum; collect after 12 hour fast. Separate and FREEZE IMMEDIATELY . Protect from light. Use amber transport tube. CRITICAL FROZEN	SS
XPCATS	82384	Catecholamines, Plasma* (Fractionated and Total)	Special instructions; <u>call laboratory</u>	GN
XUCATS	82384	Catecholamines, Fractionated*	Special instructions; <u>call laboratory</u>	24U
	85025	CBC (Complete Blood Count)	See Hemogram	

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XCNTAB	86256	Centromere Abs*	1 ml serum; 0.3 ml minimum; separate and refrigerate	SS
YCYCP	86200	Cyclic Citrullinated Peptide (CCP)* Antibody	1 ml serum; separate and refrigerate	SS
XT4T8	86360	CD-4 and CD-8 (T4/T8 Helper/Suppress Ratio)*	2 ml EDTA whole blood; room temperature. Do not refrigerate. Include CBC result with specimen.	L
XIMDFP	86360 86355 86357 86359	CD3, CD4, CD8, CD19 and CD 16/56 and a CD4:CD8 Ratio (Immune Deficiency Panel, Comprehensive)*	2 ml EDTA whole blood; room temperature. Do not refrigerate. Include CBC result with specimen.	L
CEA	82378	CEA	See Carcinoembryonic Antigen	SS
YCDPNL	83516 x4	Celiac Disease Panel*	2 ml serum; separate and refrigerate. Avoid hemolysis.	SS
XMTHSX	G0480	Celontin*	See Methsuximide	R
CSFCC	89050	Cell Count + Diff, CSF	1 ml CSF delivered to laboratory immediately	CSF
XCERUL	82390	Ceruloplasmin*	1 ml serum; separate and refrigerate.	SS
XCHAB	86631 x3 86632 x3	Chlamydia Antibody*, IgG and IgM	1 ml serum, separate serum and refrigerate.	SS
CHAP	87491	Chlamydia AMP DNA Probe	Cobas PCR female swab, male swab or urine transports, follow directions on package.	
CHGCAP	87491 87591	Chlamydia/GC (DNA Probe)	Cobas PCR female swab, male swab or urine transports, follow directions on package.	
XCDIAZ	80346/ G0480	Chlordiazepoxide (Librium)*	2 ml serum; DO NOT USE SERUM SEPARATION TUBE; separate and refrigerate, Protect from light	R
CL	82435	Chloride, Serum	1 ml serum; minimum 0.5 ml	SS
TUCL	82436	Chloride, Urine, 24 Hour	24 hr urine specimen collected without preservative	24U
XTHRZN	G0480	Chlorpromazine (Thorazine)*	6 ml serum; draw 2 Red Top tubes. DO NOT USE SERUM SEPARATION TUBE; protect from light.	R
HDL	83718	Cholesterol, HDL	2 ml serum; fasting specimen; minimum 1 ml serum	SS
LIPID	82465	Cholesterol, LDL	3 ml serum; fasting specimen; minimum 1 ml	SS

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	83718 84478	(Calculated)		
CHOL	82465	Cholesterol, Total	1 ml serum, minimum 0.5 ml	SS
XDNARA	82480 82638	Cholinesterase, Pseudo* w Dibucaine Inhibition	1 ml serum; after allowing specimen to clot, separate by centrifugation and refrigerate serum/plasma. Hemolyzed samples should not be used.	SS
XCHRBC	82482	Cholinesterase, RBC*	1 Lavender top; whole blood EDTA, Refrigerate.	L
	82239	Cholyglycine*	See Bile Acids, Total	
HCGTM	84702	Chorionic Gonadotropin (BHCG), Quantitative	1 ml serum; separate and refrigerate. (Tumor marker)	SS
KARYPB	88230	Chromosome Analysis,Blood	Green Top, 10 ml (2 ml for newborns) sodium heparin; include suspected diagnosis; room temperature. Complete Warde Medical Laboratory Cytogenetics Test Requisition Form.	GNS
KARYBM	88237	Chromosome Analysis, Bone Marrow Aspirate	CALL CYTOGENETICS LABORATORY 313-593-8483 FOR DELIVERY INSTRUCTIONS. Draw 2 ml into syringe rinsed with sodium heparin, if available. Immediately (within seconds), transfer to sodium heparin vacutainer tube; complete Cytogenetics Request Form.	GNS
KARYSK	88233	Chromosome Analysis, Products of Conception	CALL CYTOGENETICS LABORATORY 313-593-8483. Transfer sample to sterile container; cover tissue with sterile saline or tissue transport media; complete Cytogenetics Request Form	
KARYOF	88235 88267 88280	Chromosome Analysis, Amniotic Fluid	CALL CYTOGENETICS LABORATORY 313-593-8483 FOR DELIVERY INSTRUCTIONS. Aseptically collect 10-20 ml into sterile tubes with no additives; complete Cytogenetics Request Form	
XFCER	86352	Chronic Urticaria*	2 ml serum; 1 ml minimum; separate	SS
XUCIT	82507 82570	Citric Acid, 24 hr. urine*	25 ml aliquot of 24 hr. urine (min. 10 ml) urine; preserved with 10 gm boric acid. Adjust pH to 4-7. Record total volume on container and requisition; refrigerate.	24U
TCK	82550	CK	1 ml serum; separate and refrigerate.	SS
XCKISO	82552 82550	CK Isoenzymes* (For chest pain - suggest Troponin-test)	2 ml serum; separate and freeze within 4 hours of collection. CRITICAL FROZEN. NOT	SS

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			AVAILABLE STAT; if chest pain, Troponin I test is suggested.	
CKMBOO	82553	CK-MB (For chest pain, suggest Troponin-I test)	1 Lithium Heparin Tube. Specimen must be spun and separated within 2 hours of collection. Testing performed at Trenton and Dearborn facilities.	GNL
XCLOB	80339 G0480	Clobazam*	1 ml serum; draw in Red Top tube; separate and refrigerate. DO NOT USE SERUM SEPARATION TUNE	R
XCLMET	80335	Clomipramine (Anafranil)*	2 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
XCLONP	80346/ G0480	Clonazepam (Clonopin)*	4 ml serum; refrigerate. DO NOT USE SERUM SEPARATION TUBE.	R
	80346/ G0480	Clorazepate (Tranxene)* (as Nordiazepam)	2 ml serum; refrigerate. DO NOT USE SERUM SEPARATION TUBE.	R
CDAT	87324 87449	Clostridium Difficile Ag/Toxin	Collect 10 gm of fresh stool in clean container	ST
YCLOZA	80159	Clozapine (Clozaril)*	2 ml serum; refrigerate. Red Top Only. DO NOT USE SERUM SEPARATION TUBE	R
XFII	85210	Coag Factor II Activity*	2 ml citrated plasma in 2 plastic tubes: FREEZE IMMEDIATELY	B
XFVACT	85220	Coag Factor V Activity*	2 ml citrated plasma in plastic tube; separate and FREEZE IMMEDIATELY	B
XFVII	85230	Coag Factor VII Activity*	2 ml citrated plasma in plastic tube; separate and FREEZE IMMEDIATELY	B
XF8ACT	85240	Coag Factor VIII Activity* (Vonwillebrand Fact Activity)	2 ml citrated plasma in plastic tube; separate and FREEZE IMMEDIATELY	B
XF8AG	85244	Coag Factor VIII Antigen* (Vonwillebrand Ag)	2 ml sodium citrate plasma; separate and FREEZE IMMEDIATELY	B
XF9ACT	85250	Coag Factor IX Activity*	2 ml citrated plasma in plastic tube; FREEZE IMMEDIATELY	B
XFFACT	85260	Coag Factor X Activity*	2 ml citrated plasma in plastic tube; separate and FREEZE IMMEDIATELY	B
XFXI	85270	Coag Factor XI Activity*	2 ml citrated plasma in plastic tube. Double centrifugation critical for accurate results. Separate and FREEZE IMMEDIATELY. CRITICAL FROZEN	B

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
AFXII	85280	Coag Factor XII Activity*	2 ml citrated plasma; spin down remove plasma, spin plasma again; place 1.0 ml of citrate, platelet poor plasma in plastic vial; FREEZE IMMEDIATELY	B
XF13QL	85291	Coag Factor XIII , Qualitative*	2ml citrated plasma in plastic tube; separate and FREEZE IMMEDIATELY	B
	80307	Cocaine, Qual.*	10 ml random urine; minimum 5 ml. Refrigerate	U
XCAB	86635 x4	Coccidioides Antibody*	1 SST/Two 1 ml serum aliquots; separate serum from cells and refrigerate ASAP	SS
	80361/ G0480	Codeine, Quant.* (includes metabolite)	2 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
	80307	Codeine*, Urine, Qual.	10 ml random urine	U
XCAG	86156 86157	Cold Agglutinins* (Titer performed if positive)	Specimen can only be drawn at Monroe or Dearborn MOB draw site.	R
YCH50	86162	Complement, Total, CH50*	1 ml serum; allow blood to clot at room temperature. Centrifuge and separate; FREEZE IMMEDIATELY. CRITICAL FROZEN.	SS
DATP	86880	Coombs Test, Direct	2 ml EDTA whole blood	P
ABSCN2	86850	Coombs Test, Indirect	See Antibody Screen	
XCURBC	82525	Copper, RBC*	5 ml whole blood, collect in dark blue EDTA tube, centrifuge and separate cells from plasma, send 1.0 ml RBCs, refrigerate.	DB
XCU	82525	Copper, Serum*	2 ml serum; collect in dark blue top; no additive; allow to clot at room temperature for 30 minutes; spin and separate transfer tube; refrigerate serum.	DB
XTUCU	82525	Copper, Urine*	24 hr well mixed urine specimen collected in plastic container.	24U
RCORT AMCORT PMCORT	82533	Cortisol, AM/Cortisol, PM/ Cortisol, Random	1 ml serum; specify AM, PM or random specimen; minimum 0.5 ml serum	SS
XUFCOR	82530	Cortisol, Urine, Free*	24 hr. specimen collected without preservative	24U
	83530	Cortisol, Urine, Random*	10 ml random urine	U
XCXAAB x 6	86658	Coxsackie A Virus AB* (Type 2,4,7,9,10,16)	3 ml serum; separate from cells ASAP; refrigerate; label acute or convalescent avoid hemolysis	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XCXB16	86658 x6	Coxsackie B Antibodies* (types 1-6)	3 ml serum; separate from cells ASAP, refrigerate; label acute or convalescent;	SS
TCK	82550	Creatine Kinase (CK)	1 ml serum; avoid hemolysis; minimum 0.5 ml	SS
RUCRE	82570	Creatinine, Urine (Random)	10 ml random urine	U
CRCL CRE	82575	Creatinine Clearance	1 ml serum AND 24 hr. urine specimen collected without preservative; minimum 0.5 ml serum	SS + 24U
CRE	82565	Creatinine, Serum	1 ml serum; minimum 0.5 ml	SS
TUCRE	82570	Creatinine, Urine, 24 Hour	24 hr. urine specimen collected without preservative	24U
XCRY	82595	Cryoglobulin*, Qual.	Send patient to MOB 107, Monroe Street OR Trenton draw site for specimen collection.	R
CRPTAG	86403	Cryptococcus Antigen	1 ml serum or CSF	R
CRSPAG	87328	Cryptosporidium Antigen	Fresh, unpreserved stool or stool in Carey Blair transport.	ST
CRYID	89060	Crystal Examination, Body fluids	1 ml body fluid	R
AFBC	87116 87206 87015	Culture, Acid Fast (AFB)	Aseptically collected specimen in sterile container; state site of collection; blood – call for isolator tube.	
BC	87040	Culture, Blood	2-10 ml whole blood drawn in Bact/Alert Aerobic/Anaerobic bottle set	BC
XCHC	87110	Culture, Chlamydia*	Secretions from infected areas; must be placed in viral transport media; state site of collection	
CSFC	87070 87205	Culture, CSF	1 ml aseptically collected CSF in a sterile container; do not refrigerate	CSF
	87252	Culture, Cytomegalovirus*	Special viral transport media required; request from laboratory; refrigerate specimens immediately after collection; DO NOT FREEZE; state site of collection	VT
	87070 87075 87205	Culture, Deep Wound, (includes anaerobic)	Aseptically collected specimen in sterile container or Amies blue swab; state site of collection	
EARC	87070	Culture, Ear	Amies Culture swab; refer to Microbiology Special Instructions Section of Service Manual	

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
ENVIRC	87070	Culture, Environmental	Swab in transport media, milli pore plate, or water/fluids to be tested and autoclave spore test	
EYEC	87070	Culture, Eye	Swab in Amies blue transport media	
FUNC	87101	Culture, Fungus	Aseptically collected specimen in a sterile container; state site of collection; blood-call for isolator tube	
XHSVPC	87529	Culture, Herpes Simplex*	Viral transport media required; request from laboratory; state site of collection	
NOSC	87070	Culture, Nasal	Swab in Amies blue transport media	SG/SN
RESC	87070 87205	Culture, Sputum (Respiratory)	Culture, Staph screen - first morning, deep cough specimen in sterile container	
STLC	87045 87046 87427	Culture, Stool	Aseptically collected fresh specimen in sterile container or Carey Blair transport media	
THSS	87081	Throat Culture, Strep Scrn	Swab in Amies blue transport media	SG/SN
THC	87070	Culture, Throat	Swab in Amies blue transport media	SG/SN
UC	87086	Culture, Urine with Colony Count	Clean catch collected specimen in sterile container; transfer to urine culture and sensitivity transport kit; follow directions on package	UT
WDAC	87070 87205	Culture, Wound and Skin	Blue Amies Culturette; state site of collection	SG/SN
WDANC	87070 87075 87205	Culture, Wound, Deep	Blue Amies Culturette; state site of collection	SG
XCYCL	80158	Cyclosporine*	3.0 ml EDTA whole blood; refrigerate	L
CYSTGZ	81220	Cystic Fibrosis	10 ml EDTA whole blood accompanied by a Cytogenetic requisition form and a Genetics Questionnaire	3L
	82131	Cystine*	24 hr. urine specimen collected without preservative; refrigerate during collection.	24U
CMVIGG	86644	Cytomegalovirus Antibody (CMV) IgG	1 ml serum; separate and refrigerate serum	SS
CMVIGM	86645	Cytomegalovirus Antibody (CMV) IgM	1 ml serum; separate and refrigerate serum	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
YIQCMG	87497	Cytomegalovirus DNA Quantitation by PCR*	1 ml plasma; draw lavender-top EDTA tube, centrifuge to separate plasma from cells within 24 hours of collection, refrigerate	L
DIMEI	85379	D-Dimer	1 full citrated blue top tube. Send STAT. If there is a delay in testing greater than 4 hours, separate plasma from cells and send on ice or freeze.	B
	80307	Darvon*	10 ml random urine; refrigerate. (See Drug Abuse Screens - Urine Panels). See Propoxyphene. Quant, Qual, Forensic or Clinical	U
	80362	Demerol*	2 ml serum; DO NOT USE SERUM SEPARATION TUBE, See Meperidine	R
VALPRO	80164	Depakene	1 ml serum; minimum 0.5 ml; DO NOT USE SERUM SEPARATION TUBE; State hours post med	R
XFRVAL	80165	Depakene, Free*	1 ml serum; minimum 0.5 ml; DO NOT USE SERUM SEPARATION TUBE; State hours post med	R
XDSIPR	80335/ G0480	Desipramine (Norpramin)*	2 ml serum; draw in plain red-top tube, DO NOT USE SERUM SEPARATION TUBE, refrigerate	R
	G0480	Desyrel (Trazodone)*	See Trazodone	R
XDHEA	82626	DHEA (Unconjugated)*	2 ml serum; separate and refrigerate, overnight fasting is preferred.	SS
YDHEAS	82627	DHEA, Sulfate (DHEAS)	1 ml serum; let specimen clot 30-60 minutes then immediately centrifuge, separate and refrigerate.	SS
XDIAZP	80346/ G0480	Diazepam (Valium)* (includes: Nordiazepam metabolite)	2 ml serum; DO NOT USE SERUM SEPARATION TUBE; separate and refrigerate	R
		Diazepam (Valium), Qual; urine*	10 ml random urine	U
WBCD	85007 85048	Differential Leukocyte and Count	3 ml EDTA whole blood or 2 peripheral blood smears; minimum 2 ml EDTA whole blood or one full (0.5-0.7 ml) lavender microtainer	L
DIG	80162	Digoxin (Lanoxin)	1 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
XDHT	82642	Dihydrotestosterone, 5-Alpha* (DHT)	1 ml serum – separate and send 1.0 ml serum; refrigerated, avoid hemolysis	R

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
PHENY	80185	Dilantin (Diphenylhydantoin, Phenytoin)	1 ml serum; minimum 0.5 ml; DO NOT USE SERUM SEPARATION TUBE; State hours post med	R
XFDIL	80186	Dilantin, Free*	1 ml serum; refrigerate. DO NOT USE SERUM SEPARATION TUBE.	R
	86317	Diphtheria Antibodies*	1 ml serum; separate from cells within 2 hours of collection and refrigerate	SS
XDLDL	83721	Direct LDL*	1 ml FASTING serum, centrifuge and separate from cells within 3 hours of collection, EDTA plasma or heparinized plasma also acceptable, ,refrigerate	SS
DATP	86880	Direct Coombs	2 ml EDTA whole blood	P
XDSPYR	80299	Disopyramide (Norpace)*	1 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
DNADS	86225	DNA (DS) (Anti nDNA) (titer performed if positive)	3 ml serum; separate and refrigerate.	SS
XDNASS	86226	DNA Single Stranded Antibodies*	1 ml serum – separate from cells as soon as possible and refrigerate	SS
XADB	86215	DNase Ab*	1 ml serum; 0.4 ml minimum; separate and refrigerate	SS
XDENGM	86790 x2	Dengue Fever Ab, IgG/IgM*	1ml serum; 0.3 minimum; separate from cells within 2 hours of collection; refrigerate	SS
XDIPSS	86317	Diphtheria Toxoid, IgG	1ml serum; 0.3 ml minimum; separate from cells within 2 hours of collection; refrigerate	SS
XDOP	82542	Dopamine*	4 ml plasma, separate and FREEZE plasma. Specimen should be collected in a pre-chilled green sodium heparin tube. Patient should avoid alcohol, coffee, tea, tobacco and strenuous exercise prior to collection.	GN
	80368	Doriden*	2 ml serum; DO NOT USE SERUM SEPRATION TUNE, refrigerate	R
	80335/ G0480	Doxepin (Sinequan)*	1 ml serum; DO NOT USE SERUM SEPARATION TUBE, refrigerate	R
XCD10A	80307	Drug Abuse Screen 10 Urine, Qual.* (includes Amphetamines, Barbiturates, Opiates, Benzodiazepines, Cocaine, THC-50, PCP, Propoxyphene,	30 ml random urine; minimum 15 ml. Forensic or Clinical	U
XUD10C (Automatic Confirm. of Positive Results)	80307		Newborn: minimum 1 ml required for initial test plus 2 ml for confirmation of each positive	

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
		Methadone, Methaqualone)		
XSDSCC	80307	Drug Screen, Serum*	4 ml serum from red top tube; separate and refrigerate; although urine is the specimen of choice for drug screening, a serum drug screen can be performed when a urine sample is unavailable (autopsy, dialysis pt.) DO USE SERUM SEPARATION TUBE,	R
EBVPN	86665 x2 86664	EBV Panel Includes: EBV – EBNA (IgG) EBV – VCA (IgG) EBV – VCA (IgM)	1 ml serum, free from hemolysis, lipemia; separate and refrigerate.	SS
XECHO	86658 x5	Echovirus Antibody* (Types 6,7,11,30)	3 ml serum; separate and refrigerate, free from hemolysis. LABEL ACUTE OR CONVALESCENT	SS
XAMTRP	80335/ G0480	Elavil*	See Amitriptyline 1 ml – DO NOT USE SST; separate and refrigerate within 8 hours	R
LYTES	80051	Electrolyte Panel (Includes NA, K, CL,CO2)	1 ml serum; avoid hemolysis; centrifuge after clotting; DO NOT OPEN TUBE ; minimum 0.5 ml serum	SS
YENA	86235 x2	ENA Antibodies* (Sm and RNP Antibodies)	1 ml serum; separate and refrigerate	SS
YENDOA	86255	Endomysial IgA Antibodies*	1 ml serum, separate and refrigerate	SS
EOCT	85048	Eosinophil Count	3 ml EDTA whole blood; minimum 2 ml or one full lavender microtainer	L
EONAL	89190	Eosinophil Smear (nasal eosinophil count)	2 slides with smear of material; Indicate source	SL
EBVM	86665	Epstein-Barr Viral Capsid Antibody, IgM	2 ml serum; separate and refrigerate	SS
	83805	Equanil*	See Meprobamate	
XERYTH	82668	Erythropoietin* (EPO)	1 ml serum; separate and freeze; avoid hemolysis and lipemia	SS
ESTRAD	82670	Estradiol, Serum	1 ml serum, free from hemolysis	SS
XESTRG	82672	Estrogen, Total serum*	3 ml serum; 1.5 minimum; separate and refrigerate	SS
XESTRO	82679	Estrone*		R

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
			1 ml serum; 0.3 ml minimum; draw in Red Top tube; separate from cells and refrigerate; DO NOT USE SERUM SEPARATION TUBE	
ETOH	G0480	Ethanol, Blood (ETOH)	5 ml whole blood; DO NOT REMOVE CAP ; do not prep arm with alcohol; minimum 1 ml whole blood	GY
	82690	Ethchlorvynol (Placidyl)*	2 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
XZRNTN	80168	Ethosuximide (Zarontin)*	1 ml serum; DO NOT USE SERUM SEPARATION TUBE, refrigerate	R
XFVL	81241	Factor V: Leiden Mutation* Factor - Assay	5 ml EDTA whole blood; room temperature See Coagulation Factors	L
XPPR	84202	FEP (Free Erythrocyte Protoporphyrin)*	2 ml EDTA whole blood. Refrigerate, protect from light. Transfer whole blood to amber tubes to protect light. Frozen or hemolyzed samples are unacceptable. Wrap in aluminum foil.	L
XFECQL	82705	Fat, Feces, Qual.* (Random)	Random stool specimen in sterile container (white topped vial) no preservative – call laboratory for diet requirements	
	82710	Fat, Feces, Quant.* (24, 48 or 72 hour collection)	Call laboratory for instructions	
XFELB	80299	Felbamate*	1 ml serum; 0.5 ml minimum; collect in Red Top tube; DO NOT USE SERUM SEPARATION TUBE	R
FIBRO	82731	Fetal Fibronectin	Collect vaginal swab using a Fibronectin collection container; call lab for STAT pickup	
FERRIT	82728	Ferritin	1 ml serum free of hemolysis; minimum 0.5 ml	SS
FDP	85362	Fibrin Degradation Products - Fibrin Split Products (FDP/FSP)	1 FDP tube; deliver to lab within 1 hr. of venipuncture. Call for STAT pickup.	
FIBP	85384	Fibrinogen	1 full blue top (citrate plasma). Specimen is stable for 4 hours once drawn. If testing is delayed, separate and send plasma.	B
XFLCND	80299	Flecainide (Tambocor)*	1 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XFLUOX	80299	Fluoxetine (Prozac)*	2 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XFLPNZ	80342/ G0480	Fluphenazine (Prolixin)*	2 ml serum; centrifuge and separate from cells within 2 hours of collection, refrigerate.	R
FOLATE	82746	Folate (Folic Acid)	1 ml serum free from hemolysis.	SS
FSH	83001	Follicle Stimulating Hormone (FSH)	1 ml serum free from hemolysis	SS
FRAGXG	81243	Fragile X*	10 ml EDTA whole blood; accompanied by Cytogenetic requisition and a Genetics Questionnaire. Call Cytogenetics before sending (313/593-8483)	3L
XFRVAL	80165	Free Depakene*	1 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
XFDIL	80186	Free Dilantin*	1 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
XFFAC	82725	Free Fatty Acids*	1 ml serum; 0.5 minimum; draw in plain red top tube following an overnight fast; separate from cells within 1 hour of collection; freeze	R
YFRT3	84481	Free T3*	1 ml serum; separate and refrigerate	SS
XFPSA	84153 84154	Free and Total PSA*	See Prostate Specific Antigen (PSA) Free and Total. Separate and freeze. CRITICAL FROZEN	SS
FT4	84439	Free T4	1 ml serum; avoid lipemia; minimum 0.5 ml	SS
XFCARB	80157	Free Tegretol*	1 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
FT4	84439	Free Thyroxine (Free T4)	1 ml serum; avoid lipemia; minimum 0.5 ml	SS
XFRCMN	82985	Fructosamine*	1 ml serum; separate and refrigerate within 4 hours of collection.	SS
FSH	83001	FSH (Follicle Stimulating Hormone), Serum	1 ml serum, separate and refrigerate, free from hemolysis	SS
FTAABS	86781	FTA-ABS	1 ml serum; separate and refrigerate	SS
XFAP	86606 86612 86635 86698	Fungal Antibodies by ID*	1 ml serum; separate from cells within 2 hours of collection, refrigerate	SS
XG6PDQ	82955	G-6-PD* Quant.	5 ml EDTA whole blood; refrigerated. Do not transfer blood to other containers. Alternate: One GRN (heparin) OR one yellow top (ACD) acceptable if sent with Hgb value.	L

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XNURNT	80171	Gabapentin (Neurontin)*	1 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE.	R
XGAD	83520	GAD Autoantibodies*	1 ml serum; 0.5 ml minimum; separate and freeze	SS
XUGHBS	80307	Gamma Hydroxybutyric Acid (GHB)*	5 ML random; refrigerate	UR
XPARAB	83516	Gastric Parietal Cell Antibody* (Antibodies only)	1 ml serum; separate and refrigerate	SS
XGSTRN	82941	Gastrin*	2 ml serum; separate and FREEZE immediately. Patient must be fasting for 12 hours. CRITICAL FROZEN	SS
GCS	87081	GC Screen	Amies swab must be received within 24 hrs. of collection; do not refrigerate; state site of collection	SG/SN
GCAP	87591	GC AMP, DNA Probe	Cobas PCR female swab, male swab or urine transports, follow directions on package.	
GENTA	80170	Gentamicin, (Garamycin)	1 ml serum; DO NOT USE SERUM SEPARATION TUBE; specify Trough specimen	R
GENTAT	80170	Gentamicin, Trough (Garamycin)	1 ml serum; DO NOT USE SERUM SEPARATION TUBE; specify Trough specimen	R
GENTAP	80170	Gentamicin, Peak (Garamycin)	1 ml serum; DO NOT USE SERUM SEPARATION TUBE; specify Peak specimen	R
GGTP	82977	GGT (Gamma Glutamyl Transpeptidase)	1 ml serum; avoid hemolysis; minimum 0.5 ml	SS
XGAB	86674	Giardia Lamblia IgG Ab*	1 ml serum; 0.5 ml minimum; separate and refrigerate	SS
YGLIAD	83520	Gliadin (Deamidated) Antibodies*	1 ml serum; separate within 2 hours of collection, refrigerate	SS
GLOB	82040 84155	Globulin	1 ml serum free from hemolysis. Includes Total Protein and Albumin.	SS
XAGBMA	83516	Glomerular Basement Membrane IgG Ab*	1 ml serum; 0.5 minimum; separate and refrigerate	SS
XGLCGN	82943	Glucagon*	Call Laboratory for instructions	
GTT2H	82947 82950	Glucose Tolerance - 2 hour (ADA recommended)	Fasting specimen and 2 hr. specimen. No appointment necessary.	

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
GTTGES	82951 82952	Glucose Tolerance - 3 Hour (Gestational)	Call Laboratory for appointment	
GTT5H	82951 82952	Glucose Tolerance - 5 Hour	Call Laboratory for appointment	
GLU2	82947	Glucose, 2 hr PC	1 ml sodium fluoride gray top tube, whole blood; minimum 0.5 ml sodium fluoride plasma	GY
FLGLU	82945	Glucose, Body Fluid	1 ml body fluid	
FBS	82947	Glucose, Fasting	1 ml sodium fluoride gray top tube, whole blood; minimum 0.5 ml sodium fluoride plasma	GY
GLU1	82950	Glucose, Post Glucola	1 ml sodium fluoride gray top tube, whole blood drawn 1 hr post ingestion of 50 grams Glucola; minimum 0.5 ml sodium fluoride plasma	GY
UAGLU	81005	Glucose, Urine, Qual.	5 ml fresh random urine	U
RUGLU	82945	Glucose, Urine, QT-Random	5 ml fresh random urine	U
	80368	Glutethimide (Doriden)*	2 ml serum; DO NOT USE SERUM SEPRATION TUNE, refrigerate.	R
HBA1C	83036	Glyco Hemoglobin	5 ml EDTA whole blood, minimum 0.5 ml	L
GRAMST	87205	Gram Stain	Unaltered specimen or thin smear of specimen on microscopic slide; air dry; state site of collection	
YGH	83003	Growth Hormone (HGH)*	1 ml FASTING serum; separate and FREEZE IMMEDIATELY	SS
XFLUB	86710 x2	Haemophilus Influenzae B Antibody*	1 ml. serum – indicate acute or convalescent sample; separate cells from serum within 2 hours of collection	SS
XHLDOL	80173	Haloperidol (Haldol)*	1 ml serum; DO NOT USE SERUM SEPARATION TUBE, collect sample 11-17 hours after last dose	R
HAPTO	83010	Haptoglobin	1 ml serum; minimum 0.5 ml; avoid hemolysis and lipemia	SS
YIHVIG	87517	HBV DNA Quantitation by PCR*	1 ml serum; separate serum from cells within 24 hours of collection, refrigerate. EDTA plasma also acceptable	SS
BHCGT	84702	HCG, Serum, Quant. (Beta)	1 ml serum; separate and refrigerate; minimum 0.5 ml	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
UHCG	81025	HCG, Urine, Qual.	5 ml random urine; first morning specimen preferred	U
YIQHCG	87522	HCV-RNA, Quant. PCR*	2 ml serum; collect 1 SST or red top tube, centrifuge serum from cells within 24 hours of collection, separate and refrigerate. Alternate specimen; plasma from lavender top tube	SS
HDL	83718	HDL Cholesterol	2 ml serum; fasting specimen; minimum 1 ml serum	SS
XHE4Q	86305	HE4, Ovarian Cancer Monitoring*	1 ml serum; 0.5 ml minimum; separate and freeze	SS
XHMSB	82175 83655 83825	Heavy Metal Evaluation (Includes Arsenic, Mercury, Lead)*	2 ml whole blood; refrigerate	DB
XUHMS (Random) XTUHMS (Timed)	83655 83825 82175 82570	Heavy Metal Evaluation (Includes Arsenic, Mercury, Lead)*	Urine: 10 ml random or 24 hr. urine. Requires FROZEN urine. Collect urine in acid washed or metal free container. Mix well, send 10 ml urine frozen in and acid washed or metal free screw capped container. Record total volume on specimen on container and requisition for timed-urine specimens.	U TU
XHPAG	87338	Helicobacter pylori Ag, Stool*	0.5 ml or 0.5 gm of semi-solid stool; FROZEN	ST
BTEK	83013	Helicobacter pylori Breath test	Contact lab for collection kit; do not eat or drink for 1 hour prior to test. Testing solution contains PKU.	
HCT	85014	Hematocrit (HCT)	3 ml EDTA whole blood; minimum 2 ml or one full (0.5-0.7 ml) lavender microtainer	L
HGB	85018	Hemoglobin (HGB)	3 ml EDTA whole blood; minimum 2 ml EDTA whole blood or one full (0.5-0.7 ml) lavender microtainer	L
HBA1C	83036	Hemoglobin A1C	5 ml EDTA whole blood, minimum 0.5 ml	L
XHGBE	83020	Hemoglobin A2*	3 ml. EDTA whole blood; minimum 0.5 ml; avoid hemolysis; refrigerate	L
HGBHCT	85014 85018	Hemoglobin and Hematocrit	3 ml EDTA whole blood; minimum 2 ml or one full (0.5-0.7 ml) lavender microtainer	L
XHGBE	83020	Hemoglobin Electrophoresis*	3 ml EDTA whole blood; minimum 0.5 ml; avoid hemolysis; refrigerate	L
HGRAM	85025	Hemogram (CBC) with differential, platelets	3 ml EDTA whole blood; minimum 2 ml EDTA whole blood or one full (0.5-0.7 ml) lavender microtainer	L

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
HGMP	85027	Hemogram with platelets	3 ml EDTA whole blood; minimum 2 ml EDTA whole blood or one full (0.5-0.7 ml) lavender microtainer	L
XHMSID	83070	Hemosiderin*	10 ml urine; first morning specimen preferred; freeze	UR
YLMWH	85520	Heparin Anti Xa, Low Molecular Weight Heparin*	One Light Blue-top Becton-Dickinson 3.2% Sodium Citrate tube. Tube must be full. Transport whole blood to the Laboratory within 4 hours of collection. If transport within 4 hours is not possible, centrifuge specimen and remove only top 2/3 of plasma and transfer to a plastic tube. FREEZE	B
YUNFHP	85520	Heparin Anti Xa, Unfractionate Heparin*	One Light Blue-top Becton-Dickinson 3.2% Sodium Citrate tube. Tube must be full. Transport whole blood to the Laboratory within 4 hours of collection. If transport within 4 hours is not possible, centrifuge specimen and remove only top 2/3 of plasma and transfer to a plastic tube. FREEZE	B
HFP	80076	Hepatic Function Panel (See Panel Description)	2 ml serum; separate and refrigerate, avoid hemolysis	SS
HAVAB	86708	Hepatitis A Antibody, Total	2 ml serum; separate and refrigerate, avoid hemolysis	SS
HAVIGM	86709	Hepatitis A Antibody IgM (Anti-HAV-IgM)	2 ml serum; separate and refrigerate, avoid hemolysis	SS
HBCAB	86704	Hepatitis B core Antibody, (Anti-HBc - Total)	2 ml serum; separate and refrigerate, avoid hemolysis	SS
HBCIGM	86705	Hepatitis B core Antibody IgM (Anti-HBc IgM)	1 ml serum; separate and refrigerate	SS
XHBEAB	86707	Hepatitis Be Antibody (Anti-HBe)*	1 ml serum; separate and refrigerate	SS
XHBEAG	87350	Hepatitis Be Antigen (HBeAG)*	1 ml serum; separate and refrigerate	SS
HBAB	86706	Hepatitis B Surface Antibody (Anti-HBs)	1 ml serum; separate and refrigerate, free of hemolysis	SS
HBSAG	87340	Hepatitis B Surface Antigen (HBsAG)	1 ml serum; separate and refrigerate, free of hemolysis	SS
HCV	86803	Hepatitis C Antibody (Anti HCV)	1 ml serum; separate and refrigerate	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
YIHCVG	87902	Hepatitis C Virus Genotype*	2 ml serum; collect 1 SST or red top tube, centrifuge serum from cells within 24 hours of collection, separate and refrigerate. Alternate specimen; plasma from lavender top tube	SS
XHDDHEM	81256	Hereditary Hemochromatosis*	5 ml EDTA whole blood; room temperature	L
XHERPG	86695 86696	Herpes Simplex I, IgG* (HSV1 Ab IgG) and Herpes Simplex II – IgG*	2 ml serum; minimum 1 ml; free from hemolysis, lipemia and bacterial contamination; fasting specimen preferred	SS
XHSV1	86695	Herpes Simplex I, IgG*	2 ml serum; minimum 1 ml; free from hemolysis, lipemia and bacterial contamination; fasting specimen preferred	SS
XHSV2	86696	Herpes Simplex II, IgG*	2 ml serum; minimum 1 ml; free from hemolysis, lipemia and bacterial contamination; fasting specimen preferred	SS
XHSVMT	86694	Herpes Simplex I and II - IgM*	2 ml serum; free from hemolysis and contamination	SS
XHSVC	87252	Herpes Culture*	1 viral transport vial. State site of collection; refrigerate. Screen for Herpes Simplex only. For Herpes Zoster, order viral culture.	VT
XHTRPH	86308 86309	Heterophile Antibodies* Differential Absorption with reflex to titer Heterophile titer	1 ml serum free from hemolysis and bacterial contamination; centrifuge, remove serum from cells within 2 hours of collection; refrigerate	SS
XHEXOW	83080 x2	Hexosaminidase A and Total Hexosaminidase, Leukocytes*	10-15 ml whole blood in ACD tube, refrigerate, sample must reach the reference lab within 48 hours of collection	ACD
XSERB	84260	5-HIAA (Serotonin), Blood*	2 ml EDTA. Aliquot whole blood into 2 tubes and freeze. Contact Lab for special instructions.	L
XSRTIN	84260	5-HIAA (Serotonin), Serum*	2 ml. Serum; centrifuge within 2 hours of collection, aliquot serum into 2 tubes and FREEZE	SS
X5HIAT	83497	5-HIAA (Serotonin), Urine*	24 hr. urine specimen; collected in 20 ml 50% glacial acetic acid or 20 ml 50% 6N HCl	24U
XHSTMN	83088	Histamine, blood*	1 ml EDTA plasma FREEZE; use pre-chilled tube.	L
XHISAB	83516	Histone, Antibody (IgG)*	2 ml serum; separate from cells within 2 hours of collection and refrigerate	SS
XHSTPL	86698 x2	Histoplasma Antibodies*	1 ml serum, separate and refrigerate	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
		By CF		
CHIV	86703	HIV Ag/Ab 4th Generation screen	1 ml serum; separate and refrigerate	SS
XHIVG	87900 87901	HIV-1 Genotype*	3 ml plasma from lavender top EDTA tube; separate and freeze within 24 hours of collection. CRITICAL FROZEN. Dedicated specimens are required	L
XHGRIT	87900 87901 87906	HIV-1 Genotype (RT, PI, Integrase Inhibitors)*	5 ml plasma from lavender top EDTA tube; separate and freeze within 24 hours of collection. CRITICAL FROZEN. Dedicated specimens are required	L
YIHIVG	87536	HIV-1 RNA Ultra Quantitative*	2 Lavender EDTA – 7ml; centrifuge and separate from cells ASAP within 6 hours of collection. Freeze plasma immediately. Dedicated specimens required.	2 L
HIVRAP	86701	HIV (needle stick source patients only)	1 ml EDTA plasma	2 L
YFB27G	86812	HLA-B27*	1 lavender top/EDTA whole blood; min 1.0 ml; keep at room temperature; DO NOT SEPARATE, REFRIGERATE OR FREEZE. Alternate specimen: heparin whole blood or ACD-A. Specimen must be received in laboratory within 48 hours of collection.	L
XHLB57	81381	HLA-B 5701 Typing*	1 lavender top/EDTA whole blood; min 1.0 ml; keep at room temperature; DO NOT SEPARATE, REFRIGERATE OR FREEZE. Alternate specimen: heparin whole blood or ACD-A	L
YCIDA1	81372 81373	HLA Class I Disease Association*	1 lavender-top EDTA tube or 1 yellow-top ACD tube, Maintain at room temperature. Must be transported to the performing laboratory within 24 hours of collection.	L
HOMCS	83090	Homocysteine, Total	2 ml heparin or EDTA plasma. Centrifuge, remove plasma from cells and refrigerate. DO NOT FREEZE. Serum from SST is also acceptable	L
	87624	HPV DNA High Risk	Thin Prep Pap Test specimen transport media; order on Cytology requisition	
YGH	83003	Human Growth Hormone*	1 ml fasting serum; separate and freeze within 2 hours of collection. CRITICAL FROZEN	SS
XHUMPL	83632	Human Placental Lactogen*	1 ml serum; 0.5 ml minimum; draw in plain Red Top tube; separate and freeze	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
X17OHP	84143	17-Hydroxypregnenolone*	1 ml serum; separate from cells within 2 hours of collection; FROZEN	SS
XHP17	83498	17-Hydroxyprogesterone*	1 ml serum; separate and refrigerate. Avoid hemolysis.	SS
	83505	Hydroxyproline, Total*	Two 5 ml aliquots from a well-mixed 24 hr. collection; FROZEN	24U
	83491 82570	17-Hydroxycorticosteroids*	24 hr urine specimen collected with 1 gram boric acid	24U
	80329 G0480	Ibuprofen*	1ml serum; draw specimen between 60-90 minutes post dose in plain red-top tube; DO NOT USE SERUM SEPARATION TUBE	R
IGA	82784	IgA (Immunoglobulin A)	1 ml serum; separate and refrigerate, minimum 0.5 ml	SS
XIGD	82784	IgD* (Immunoglobulin D)	1 ml serum; separate from cells ASAP and refrigerate. Avoid hemolysis	SS
IGE	82785	IgE (Immunoglobulin E)	1 ml serum; separate and refrigerate, minimum 0.5 ml; free from hemolysis	SS
IGG	82784	IgG (Immunoglobulin G)	1 ml serum; separate and refrigerate, minimum 0.5 ml	SS
YIGSUB	82784 82787 X4	IgG Immunoglobulin Subclass*	4 ml serum; let specimen clot 30 minutes then centrifuge; separate, do not refrigerate or freeze	SS
IGM	82784	IgM (Immunoglobulin M)	1 ml serum; separate and refrigerate, minimum 0.5 ml	SS
XIMIPR	80335/ G0480	Imipramine*	1 ml serum; centrifuge and separate within 2 hours of collection, DO NOT USE SERUM SEPARATION TUBE	R
XIMDFP	86360 86355 86357 86359	Immune Deficiency Panel, Comprehensive*	CD3, CD4, CD8, CD19, CD16/56 and CD4:CD8 Ratio 7 ml EDTA whole blood; room temperature. Ship within 24 hours of collection. LAVENDER TOP TUBES ONLY ACCEPTABLE CONTAINER.	L
IFE	86334	Immunofixation, Serum (includes IgG, IgA, IgM)	1 ml serum; avoid hemolysis Run IFE if SPE indicates need for further testing	SS
UIFE	86334	Immunofixation, Urine	10 ml random urine or 24 hr. urine collected without preservative. Run UIFE if UPE indicates need for further testing.	24U/U
YIGSUB	82874 82787 x4	Immunoglobulin IgG Subclasses*	4 ml serum; let specimen clot 30 minutes then centrifuge; separate, do not refrigerate or freeze	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XPRPAN	80375 or 82491	Inderal* (Propranolol)	1 ml separate and refrigerate. DO NOT USE SERUM SEPARATOR TUBE	R
XFLUGM	86710 x4	Influenza A, B Virus Antibody*, IgG, IgM	1 ml serum; separate serum from cells within 2 hours and refrigerate. Avoid hemolysis	SS
FLUR	87502	Influenza A/B Virus Antigen w PCR	Nasopharyngeal swab submitted in 1-3 ml of saline, M4 or viral transport media. Specimen should be placed on ice for transport to the laboratory	VT/SC
INHA	86336	Inhibin A (Maternal Use)	1 ml serum; separate and refrigerate	SS
XINHBB	82397	Inhibin B*	1 ml serum; separate and refrigerate. Avoid hemolysis	SS
XINHIB	86336	Inhibin A (Tumor marker)*	2 ml serum; separate and refrigerate serum.	SS
INSL	83525	Insulin	1 ml serum; separate and refrigerate; free of hemolysis 12 hr FASTING SPECIMEN REQUIRED	SS
XIAB	86337	Insulin Antibodies*	1 ml serum; separate and refrigerate	SS
XIL2	83520	Interleukin-2 Receptor, Soluble*	1 ml serum; 0.5 ml minimum; separate from cells within 2 hours of collection. CRITICAL FROZEN	SS
XIL6	83520	Interleukin 6	1 ml serum; 0.6 ml minimum; separate and freeze	SS
XIFACA	86340	Intrinsic Factor Blocking Antibody*	1 ml serum; separate within 2 hours of collection and refrigerate	SS
XIODI	83789	Iodine, Serum*	3 ml blood; draw in dark blue no additive tube.	DBN
IRON	83540	Iron, Serum	1 ml serum; separate and refrigerate, avoid hemolysis	SS
FEIBC	83540 83550	Iron/TIBC/% Saturation	1 ml serum; separate and refrigerate, avoid hemolysis; minimum 0.5 ml	SS
XISLET	86341	Islet Cell Antibody*	1 ml serum; 0.2 ml minimum; separate from cells within 2 hours of collection; refrigerate	SS
XJAK2	81270	JAK2 Gene Mutation, Quantitative, PCR*	7 ml EDTA lavender whole blood; refrigerate	SS
YJO1	86235	Jo-1 IgG Antibody*	1ml serum; separate and refrigerate within 2 hours of collection	SS
KARYPB		Karyotype	See Chromosome Analysis	

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XUKETA	80357	Ketamine, urine*	10 ml random urine; refrigerate	UR
X17KTS	83586	17-Ketosteroids*	50 ml of a 24 hr urine collection. Refrigerate. Add 25 ml of 50% acetic acid at start of collection. Use 15 ml of 50% acetic acid for children less than 5 years old.	24U
XCALC	82365	Kidney Stone Analysis*	Collect stone, fragments or filtered material and place in a clean, dry, sterile container, room temperature	
KOH	87220	KOH Preparation	Aseptically collected specimen in sterile container (for fungus only)	SC
LA	83605	Lactic Acid (Lactate)	One Gray-top Fluoride Oxalate tube. Collect specimen on ice, send immediately to the lab for processing.	GY
TLD	83615	Lactate Dehydrogenase (LD)	1 ml serum; avoid hemolysis; centrifuge after clotting; minimum 0.5 ml	SS
LCTTOL	82951	Lactose Tolerance, 2 Hour	Call laboratory for appointment	
YLAMOT	80175	Lamotrigine (Lamictal)*	1 ml serum; refrigerate within 2 hours of collection. DO NOT USE SERUM SEPARATION TUBE	R
DIG	80162	Lanoxin	1 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
TLD	83615	LD	1 ml serum; avoid hemolysis; centrifuge after clotting; minimum 0.5 ml	SS
XTLDIS	83625 83615	LD Isoenzymes* LDH Isoenzymes with Total LDH	2 ml serum; separate and room temperature	SS
XDLDL	83721	LDL, Direct*	1 ml FASTING serum, centrifuge and separate from cells within 3 hours of collection, EDTA plasma or heparinized plasma also acceptable, refrigerate	SS
XLEAD	83655	Lead, Blood*	2 ml EDTA whole blood (lavender or royal blue top trace metal tube); mix well to avoid clot formation OR EDTA whole blood (dark blue top tube, brown tops are preferred); a Blood Lead Data Information for must accompany specimen. See form section. MINIMUM pediatric/capillary: 1 full (.5-.7 ml) lavender microtainer. Refrigerate Send MDCH report form with specimen	L or RB

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XPBUR	83655	Lead, Urine Quantitative*	10 ml refrigerated aliquot from well-mixed 24 hour urine collected in a plastic container. Refrigerate. Record total volume.	24U
XLEGPA	86713	Legionella Antibodies IgG (Serogroups 1-6)*	2 ml serum; draw in SST, spin and separate within 2 hours of collection; free of hemolysis, lipemia and bacterial contamination	SS
LEGUAG	87450	Legionella Antigen, Urine	2-3 ml random urine or 2-3 ml in boric acid transport; refrigerate urine if not in transport	U UP
XLEPCR	87541 87798	Legionella by PCR*	Collect respiratory specimen in sterile container; 2.0 ml in sterile screw capped container or in viral transport media.	M4/VT
	83670	Leucine Aminopeptidase*	1 ml FROZEN serum	SS
YLEVEI	80177	Levetiracetam Level* (Keppra)	2 ml serum; draw in plain red-top tube, separate within 2 hours of collection, refrigerate. DO NOT USE SERUM SEPARATOR TUBE	R
XCDIAZ	80346/ G0480	Librium*	1 ml serum; collect in plain red-top tube; DO NOT USE SERUM SEPARATION TUBE, protect from light	R
XLIDO	80176	Lidocaine*	1 ml serum; 0.2 ml minimum; draw in Red Top tube; DO NOT USE SERUM SEPARATION TUBE	R
LIPASE	83690	Lipase	1 ml serum; separate and refrigerate, avoid lipemia	SS
LIPID	82465 83718 84478	Lipid Panel Includes: Cholesterol Triglyceride HDL, VLDL Calculated LDL Chol/HDL Ratio	3 ml serum; fasting specimen; minimum 1 ml	SS
XLIPEP	83700 84478 82465	Lipo Electrophoresis*	3 ml serum; separate and refrigerate. Fasting patient 12-14 hours after 2 weeks on a stable diet	SS
XNMRPC	83704	LipoFit by NMR*	2 ml serum; collect in plain red-top tube, centrifuge and separate within 8 hours of collection. DO NOT USE SERUM SEPARATION TUBE, refrigerate	R
XLIPOA	83695	Lipoprotein (a)*	1 ml serum; separate and refrigerate, collect after 12 hour fast	SS
LITH	80178	Lithium	1 ml serum; free from hemolysis: DO NOT COLLECT IN SERUM SEPARATION TUBE; State hours post med	R

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XLKMSA	86376	Liver/Kidney Microsomal Autoantibodies*	1 ml serum; separate and refrigerate	SS
XLRZEP	80346/ G0480	Lorazepam (Ativan)*	4.0 ml serum; separate and refrigerate. DO NOT COLLECT IN SERUM SEPARATOR TUBE	R
XLUPAC	85613 x3, 85730	Lupus Anticoagulant* (LAC)	2 ml citrated plasma; CRITICAL FROZEN. Patients should not be on Coumadin therapy for 2 weeks or heparin therapy for 2 days prior to test	B
LH	83002	Luteinizing Hormone (LH), Serum	1 ml serum; separate and refrigerate. Freeze specimen if testing will not occur within 72 hours	SS
YLYMAB	86618	Lyme Disease Ab (Total)*	1 ml serum; separate within 2 hours of collection and refrigerate	SS
XLYMWB	86617 x2	Lyme Disease Ab, Western Blot*	1 ml serum; separate and refrigerate	SS
XLYSOZ	85549	Lysozyme (Muramidase)* Serum Urine	1 ml serum; separate and refrigerate ASAP. 0.5 ml CSF, tears or other body fluid other than urine. Random 3 ml; aliquot from well-mixed random collection @ 2-8°C, refrigerate. INDICATE SOURCE.	SS or U
XMAGAA	84181	MAG Autoantibody*	2 ml serum; 0.6 ml minimum; separate and refrigerate	SS
XMGRBC	83735	Magnesium, RBC*	Draw blood in dark blue EDTA tube. Spin, separate, remove plasma from cells and send RBCs in plastic vial; refrigerate	DB
MG	83735	Magnesium, Serum	1 ml serum; avoid hemolysis; centrifuge after clotting; minimum 0.5 ml	SS
TUMAG	83735	Magnesium, Urine	24 hr urine specimen collected with 25 ml 6N HCl	24U
MALAP	87207	Malaria Smear	3 ml EDTA whole blood or 2 thick and 2 thin smears	L
MALACT		Malaria Count	3 ml EDTA whole blood	L
XMN	83785	Manganese*	1 Dark Blue Top (EDTA)/7.0 mL EDTA whole blood; or 1 Dark Blue Top (no additive)/2.0 mL serum. Avoid the use of glass for serum specimen; room temperature`	DB
	80299	Mebaral*	See Mephobarbital. 1 red top tube; separate and refrigerate. DO NOT USE SERUM SEPARATOR	R

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
	80362	Meperidine (Demerol)*	2 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
	80299	Mephenytoin (Mesantoin)*	1ml serum; separate and refrigerate serum within 8 hours. DO NOT USE SERUM SEPARATION TUBE	R
	80299	Mephobarbital (Mebaral)*	Red top tube. Separate and refrigerate	R
	83805	Meproamate (Equanil)* (Miltown)	3 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
XMERC	83825	Mercury, Blood*	7.0 ml dark blue top EDTA whole blood; refrigerate	DB
XURMER	83825	Mercury, Urine*	24 hr urine specimen collected in a non-colored plastic container. Refrigerate during collection. Timed or random urine – record volume and collection lengths, random specimen also accepted	24U/U
	80299	Mesoridazine (Serentil)*	2 ml serum; protect from light; DO NOT USE SERUM SEPARATION TUBE	R
XTUMTS	82570 83835	Metanephrines, Fractionated (Urine)*	24 hr urine specimen collected with 30 ml 6N HCl; pH <3.0. Freeze 10 ml aliquot after recording total volume	24U
	80307	Methadone, Qual.*	10 ml random urine; minimum 5 ml. Refrigerate See Drug Abuse Screens - Urine Panels	U
	80368	Methaqualone (Quaalude), Qual.*	10 ml random urine; minimum 5 ml See Drug Abuse Screens - Urine Panels	U
METHGB	83050	Methemoglobin	Send patient to OHMC-D MOB draw site ONLY. Place on ice and deliver immediately to OHMC Lab	
YMTX	80375/ G4080	Methotrexate Level*	2 ml serum; draw in plain red-top tube, separate within two hours of collection, refrigerate. DO NOT USE SERUM SEPARATOR TUBE; FREEZE; PROTECT FROM LIGHT	R
XMTHSX	80339/ G0480	Methsuximide (Celontin)*	2 ml serum; refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XMTHMA	83921	Methylmalonic Acid, Serum*	3 ml serum; separate and FREEZE	SS
XUMMAG	83921 82570	Methylmalonic Acid, Urine*	5 ml random urine, refrigerate	U

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
	80360	Methylphenidate (Ritalin)*	2 ml FROZEN serum; draw in plain red-top tube; CRITICAL FROZEN, DO NOT USE SERUM SEPARATION TUBE	RD
XXLET	80299	Mexiletine (Mexitol)*	2 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
TUMALB	82043	Microalbumin - 24 hr. Urine	24 hr. urine specimen collected without preservative or a timed specimen collection; specify time and collection intervals and total volume	24U
RUMALB	82043	Microalbumin - Random Urine (Includes Albumin/ Creatinine ratio)	4 ml random urine in sterile container	U
MONO	86308	Mono Test, Qual.	1 ml serum; separate and refrigerate	SS
XXTHFR	81291	MTHFR Genotype*	5 ml EDTA Lavender whole blood; room temperature	LV
MUMPG	86735	Mumps Antibodies, IgG	1 ml serum; separate and refrigerate	SS
XXLYSOZ	85549	Muramidase*	1 ml serum; collect in plain red-top tube, refrigerate	R
YMPA	80180	Mycophenolic Acid*	1 ml serum; collect in plain red-top tube, refrigerate within two hours of collection. DO NOT USE SERUM SEPARATION TUBE	R
XXMYCAG	86738	Mycoplasma Pneumoniae Antibody*, IgG	1 ml serum; refrigerate and refrigerate	SS
XXMYCAM	86738	Mycoplasma Pneumoniae, Antibody*, IgM	1 ml serum; refrigerate and refrigerate	SS
XXMPCUL	87109	Mycoplasma Pneumoniae Culture*	Send respiratory sample (throat swab) in universal transport media, FROZEN	M4
XXMUCUL	87109	Mycoplasma/Ureaplasma Cultures*	a. Genital sample in special transport media, or b. Respiratory sample (throat swab, sputum) in special transport media. Refrigerate. Indicate source. Call laboratory for transport media.	
XXCMBP	83873	Myelin Basic Protein*	2 ml spinal fluid; call lab for pick-up; refrigerate. Do not centrifuge, submitting 4 th lumbar puncture collection tube minimizes blood contamination	CSF
MYO	83874	Myoglobin, Serum	Specimen must be received in lab within 3 hrs of collection. Avoid hemolysis	GNL
XXUMYO	83874	Myoglobin, Urine, Qual.*	5 ml random urine; refrigerate do not use preservative	U

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XMYS	80188	Mysoline (Primidone) (Includes Phenobarbital Metabolite)*	1 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XPA	80192	NAPA*	1 ml serum; draw in plain red-top tube; DO NOT USE SERUM SEPARATION TUBE	R
XNAP	80329/ G0480	Naproxen*	1 ml serum; 0.4 ml minimum, draw in plain red-top tube; DO NOT USE SERUM SEPARATION TUBE	R
XTHTHX	80342/ G0480	Navane*	1 ml serum; draw in plain red-top tube, separate from cells with 2 hours of collection, DO NOT USE SERUM SEPARATION TUBE	R
XPNTBB	80345/ G0480	Nembutal*	1 ml serum; draw in plain red-top tube; refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
IBILI	82247 82248	Neonatal Bilirubin (includes Total and Direct)	1 full amber microtainer; avoid exposure to light	SS
	83520	Neuron Specific Enolase (RIA)*	2 ml serum separated into two plastic vials before FREEZING	SS
XNCAB	86255 x2	Neutrophil Cytoplasmic Antibody (ANCA)*	1 ml serum; 0.5 ml minimum; separate and refrigerate	SS
XNIC	83885	Nickel, Serum*	2 ml serum; COLLECT IN DARK BLUE TUBE; no additives; do not allow serum to remain on cells. Separate and refrigerate serum or plasma	DB
	83885	Nickel, Urine*	24 hr urine specimen collected in plastic container. Refrigerate during collection.	24U
YNICQS	G0480	Nicotine, Quant* serum	2 ml serum; draw in plain red-top tube, DO NOT USE SERUM SEPARATION TUBE	R
YNICQU	G0480	Nicotine, Quant* urine	30 ml random urine, minimum 5 ml.	U
	80301/ G0479	NIDA 5 screen*-Forensic Drug Abuse Screen, Urine 5 Panel (Includes Amphetamines, Cocaine, Opiates, Phencyclidine (PCP), THC-50)	10 ml random urine; minimum 5 ml. XFT5Chain of custody/tamper-proof seal intact if legal implication. State "Confirm by alternate method" if required. PSC: do not collect specimens requiring chain of custody	U
XDSPYR	80299	Norpace*	1 ml serum; draw in plain red-top tube, refrigerate, DO NOT USE SERUM SEPARATION TUBE	R

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XDSIPR	80335/ G0480	Norpramin*	2 ml serum; draw in plain red-top tube, DO NOT USE SERUM SEPARATION TUBE, refrigerate	R
XNTRIP	80335/ G0480	Nortriptyline (Aventyl)*	1 ml serum; draw in plain red-top tube, DO NOT USE SERUM SEPARATION TUBE; separate and refrigerate within 2 hrs	R
XURTEL	82523 82570	N-Telopeptides, urine	Collect random urine from second morning void; FREEZE	UR
X5NUC	83915	5'Nucleotidase*	1 ml serum; separate serum from cells within 2 hours and refrigerate immediately	SS
OBPROF	85025 86592 86762 87340	OB Profile (Contains: CBC/Diff, RPR,Rubella IgG HBsAg)	1-5 ml clotted blood and 7 ml EDTA whole blood; DO NOT USE SERUM SEPARATION TUBE	2 R + L
OBS	82270	Occult Blood, Stool	Properly inoculated collection cards collected on 3 consecutive days, date each card OR 3 separate stool specimens in clean labeled vials collected on 3 consecutive days and dated.	OB
OBFITS	G0328	Occult Blood Immuno Screen (OB-FIT)	Properly collected stool sample per the collection instructions provide in the <u>Package Insert for Personal Use Kit</u>	
XCSFPE	83916	Oligoclonal Banding*	4 ml spinal fluid AND 1 ml serum; refrigerate	CSF + SS
	80307/ G0479	Opiates, Qual.*	10 ml random urine; minimum 5 ml (See Drug Abuse Screens - Urine Panels)	U
XOAP	83918	Organic Acids*, Plasma	Collect one Green top tube, spin, separate plasma from cells and FREEZE within 1 hour of collection.	GN
XORGAU	83918	Organic Acids Screen*, Urine	10 ml frozen urine from a random urine collection. CRITICAL FROZEN. Family history, clinical condition (asymptomatic or acute episode), diet, age, gender, and drug therapy information are required for interpretation.	U
OSMO	83930	Osmolality, Serum	1 ml serum; separate and refrigerate	SS
UOSMO	83935	Osmolality, Urine	2 ml random urine; collected without preservative	U
XOSTEO	83937	Osteocalcin*	1 ml serum; draw in plain red-top tube, separate and freeze within 2 hours of collection. Patient should fast for 12 hours prior to collection. CRITICAL FROZEN	R
XOVA1Q	81503	OVA 1*	2.5 ml serum; 1.1 ml minimum; separate and freeze	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
OP	87177 87209	Ova and Parasites	Random stool specimen in green capped Ecofix container; see special instructions included with tubes	
XOXALT	83945	Oxalate* (Timed Urine)	24 hr urine specimen collected with 25ml 6N HCl. Adjust pH 1-3.	24U
XOXC	80183	Oxcarbazepine*	2 ml serum; 0.2 ml minimum; draw in plain red-top tube; DO NOT USE SERUM SEPARATION TUBE	R
XNTRIP	80335/ G0480	Pamelor (Nortriptyline)*	1 ml serum; draw in plain red-top tube, DO NOT USE SERUM SEPARATION TUBE; separate and refrigerate within 2 hrs	R
XPELST	82656	Pancreatic Elastase 1*	1.0 gram stool; refrigerated in approved screw capped plastic container; refrigerate	ST
	88164	Pap Smear (Standard)	See Directory of Services, Cytology, Section 2	
	88175	Pap - Liquid Base (Thin Prep)	See Directory of Services, Cytology, Section 2	
PTH	83970	Parathormone (Parathyroid Hormone), Intact	1 ml serum or plasma. Specimen should be spun and separated from cells within 2 hours. FREEZE.	SS
XPTHRP	83519	Parathyroid Hormone Related Protein*	Spin and separate plasma from cells within 2 hours of collection, room temperature	GN
XPARAB	83516	Parietal Cell Antibody* (Antibodies only)	1 ml serum; separate and refrigerate	SS
APTT	85730	Partial Thromboplastin Time (PTT)	2.7 ml (tube size) properly filled citrated whole blood	B
XPAROX	80332	Paroxetine*	1 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XPVPNL	86747 x2	Parvovirus-B19-Antibody Panel*	1 ml serum; separate and refrigerate - free of hemolysis and gross lipemia	SS
XPNTBB	80345/ G0480	Pentobarbital (Nembutal)*	1 ml serum; draw in plain red-top tube; refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
UAPH	81003	pH, Random Urine	5 ml fresh random urine; minimum 1 ml	U
	80307/ G0479	Phencyclidine (PCP), Qual.*	10 ml random urine; minimum 5 ml	U

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
PHENO	80184	Phenobarbital	1 ml serum; minimum 0.5 ml; DO NOT USE SERUM SEPARATION TUBE; state hours post med	R
	80299/ 82491	Phensuximide (Milontin)*	2 ml serum; draw in plain red-top tube, refrigerate	R
PHENY	80185	Phenytoin	1 ml serum; minimum 0.5 ml; DO NOT USE SERUM SEPARATION TUBE; state hours post med	R
XFDIL	80186	Phenytoin, Free*	1 ml serum; refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XPACP	84066	Phosphatase Acid, Prostatic*	2 ml serum; separate from cells and FREEZE serum. Samples must be obtained before rectal examination, biopsy, prostatectomy or prostatic massage.	SS
XACP	84060	Phosphatase, Acid, Total*	1.5 ml serum; separate from cells ASAP. CRITICAL FROZEN	SS
ALP	84075	Phosphatase, Alkaline	1 ml serum; separate and refrigerate, free from hemolysis and lipemia; minimum 0.5 ml	SS
XALKPI	84075 84080	Phosphatase, Alkaline, Isoenzymes*	2 ml serum; separate and refrigerate, serum free from hemolysis; fasting patient	SS
XPLA2A	86255	Phospholipase A2 Ab*	2 ml serum; 1 ml minimum; separate and refrigerate	SS
PHOS	84100	Phosphorus, Inorganic, Serum	1 ml serum; separate and refrigerate, minimum 0.5 ml (avoid hemolysis)	SS
RUPHOS	84105	Phosphorus, Urine Random	Random urine	U
TUPHOS	84105	Phosphorus, Urine, 24 Hour	24 hr urine specimen collection preserved with 20 ml concentrated HCl	24U
PINWRM	87172	Pinworm Preparation	Special collection/transport container; call laboratory for paddle container; follow directions on container	
	82690	Placidyl*	2 ml serum; DO NOT USE SERUM SEPARATION TUBE	R
XPAI	81415	Plasminogen Activator Inhibitor*	Draw in light blue sodium citrate tube; separate and FREEZE	B
XPLTAS	86022 x5	Platelet Antibodies*, Indirect	3 ml serum; Separate and FREEZE serum. SST and plasma acceptable	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XPLABD	86023	Platelet Antibodies, Direct*	2 Lavender top EDTA/10 ml whole blood tubes, Critical ambient/room temperature. Specimen must be received at laboratory within 24 hours of collection	2L
PLT	85049	Platelet Count	3 ml EDTA whole blood; minimum 2 ml or one full lavender microtainer	L
PLTFA	85576	Platelet Function Assay	Collect 2 blue top tubes, notify testing site. Testing only performed at Dearborn and Trenton facilities. Must be collected with a 21 gauge needle or larger.	2B
XPOLAB	86832 x2	Poliovirus Antibodies* (Type 1,3)	1 ml serum; separate serum and refrigerate. Label acute or convalescent	SS
XPCB	82441	Polychlorinated Biphenyl Level (PCB)*	2 ml serum; draw in plain red-top tube, refrigerate.	R
XPORQT	84110	Porphobilinogen, Quant.*	10 ml random urine specimen collected without preservative; protect from strong light	U
XUPOFQ	84120	Porphyryns (Coproporphyrin and Uroporphyrin), Quant., Fractionated*	24 hr urine specimen collected without preservative; refrigerate during collection; protect from light.	24U
XKRBC	84132	Potassium, RBC*	2 ml whole blood, draw in lithium or sodium heparin green-top tube, refrigerate. Send whole blood	GN
K	84132	Potassium, Serum	1 ml serum; avoid hemolysis; centrifuge after clotting; minimum 0.5 ml	SS
TUK	84133	Potassium, Urine, 24 Hr.	24 hr urine specimen collected without preservative	24U
PREALB	84134	Prealbumin	1 ml serum; separate and refrigerate, fasting specimen recommended	SS
XPRGLN	84140	Pregnenolone*	1 ml FROZEN serum; draw in plain red-top tube, separate and freeze within 1 hour of collection. CRITICAL FROZEN	R
XMYS	80188	Primidone*	1 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XPA	80192	Procainamide (Pronestyl)* (Includes NAPA metabolite)	2 ml serum; draw in a plain red-top tube, DO NOT USE SERUM SEPARATION TUBE; State hours post med, refrigerate	R
PCT	84145	Procalcitonin*	2 ml whole blood; Light Green-top (PST tube). Do not use SST, Dark Green-top Lithium or Sodium Heparin tubes, or Lavender-top EDTA tubes; refrigerate	GT

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
PRG	84144	Progesterone	1 ml serum; separate and refrigerate, free from hemolysis; minimum 0.5 ml	SS
PRL	84146	Prolactin	1 ml serum; separate and refrigerate, free from hemolysis; minimum 0.5 ml	SS
XFLPNZ	80342/ G0480	Prolixin*	2 ml serum; centrifuge and separate from cells within 2 hours of collection, refrigerate.	R
XPRPF	80299	Propafenone (Rythmol)*	3 ml serum; draw in plain red-top tube, DO NOT use serum separator, refrigerate.	R
XPA	80192	Pronestyl*	2 ml serum; draw in a plain red-top tube, DO NOT USE SERUM SEPARATION TUBE; State hours post med, refrigerate	R
	80307	Propoxyphene (Darvon)* Qual.	10 ml random urine; refrigerate. (See Drug Abuse Screens - Urine Panels)	U
	80367/ G6056	Propoxyphene (Darvon)* Quant	3 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XPRPAN	80375 or 80299	Propranolol (Inderal)*	1 ml separate and refrigerate. DO NOT USE SERUM SEPARATOR TUBE	R
PSA	84153	Prostate Specific Antigen (PSA) - Total	1 ml serum; separate and refrigerate, free from hemolysis; minimum 0.5 ml	SS
XFPSA	84153 84154	Prostate Specific Antigen (PSA) - Free and Total*	1 ml serum; separate and freeze serum. CRITICAL FROZEN. Avoid hemolysis.	SS
XPACP	84066	Prostatic Acid Phosphatase*	2 ml serum; separate from cells and FREEZE serum. Samples must be obtained before rectal examination, biopsy, prostatectomy or prostatic massage	SS
XPROTC	85303	Protein C Activity*	2 ml FROZEN citrated plasma; CRITICAL FROZEN	B
XPRTCA	85302	Protein C Antigen*	2 ml FROZEN citrated plasma; CRITICAL FROZEN	B
SPE	84165	Protein Electrophoresis, Serum	2 ml serum; separate and refrigerate, avoid hemolysis; minimum 1 ml	SS
RUPE	84165	Protein Electrophoresis, Urine, Random	50 ml random urine	U
UPE	84165	Protein Electrophoresis, 24 hr. Urine	24 hr. urine collected without preservative	24U
XPROTS	85306	Protein S Activity*	2 ml FROZEN citrated plasma; CRITICAL FROZEN	B

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XPRTSA	85305	Protein S Antigen*	2 ml FROZEN citrated plasma; CRITICAL FROZEN	B
TP	84155	Protein, Total, Serum	1 ml serum; separate and refrigerate, minimum 0.5 ml	SS
TUTP	84155	Protein, Total, Urine	24 hr urine specimen collected without preservative	24U
XPT202	81240	Prothrombin 20210 Gene Mutation*	3 ml EDTA whole blood, lavender top tube; room temperature	L
PT	85610	Prothrombin Time (PT)/INR	2.7 ml (tube size) properly filled citrated whole blood	B
XPPR	84202	Protoporphyrin RBC (FEP)*	2 ml EDTA whole blood. Refrigerate, protect from light. Transfer whole blood to amber tubes to protect light. Frozen or hemolyzed samples are unacceptable. Wrap in aluminum foil.	DB/L
XZNPRT	84202	Protoporphyrin, Zinc (ZPP)*	1 ml EDTA whole blood; refrigerate, protect from light.	DB/L
XPRVNT	80375	Proventil*	2 ml serum, refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XFLUOX	80299	Prozac*	2 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
PSA	84153	PSA	1 ml serum; separate and refrigerate, free from hemolysis; minimum 0.5 ml	SS
XDNARA	82480 82638	Pseudocholinesterase* (PSE)	1 ml serum; after allowing specimen to clot, separate by centrifugation and refrigerate serum/plasma. Hemolyzed samples should not be used.	SS
PTH	83970	PTH - Intact	1 ml serum or plasma. Specimen should be spun and separated from cells within 2 hours. FREEZE	SS
XPYRUV	84210	Pyruvate* Pyruvic Acid	Special handling required; send fasting patient to OHMC-D MOB, suite 107 draw site only.	
	80368	Quaalude	10 ml random urine; minimum 5 ml See Drug Abuse Screens - Urine Panels	U
QUADSC		Quad Screen		
AFPMTL	82105	Alpha-fetoprotein	1 ml serum, avoid hemolysis; state gestational age, weight, race, multiple pregnancies, IDDM Referred to as Quad Test	SS
INHA	86336	Inhibin A		
HCGQDS	84702	HCG		
UE3	82677	UE3 (Estriol)		
YQFTB	86480	QuantiferON-TB Gold*	Test requires special collection kit, contact laboratory	

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XQUIN	80194	Quinidine*	1 ml serum; minimum 0.5 ml; DO NOT USE SERUM SEPARATION TUBE; State hours post med	R
	86003	RAST Test*	1 ml serum for 5 allergens (See Allergen List) 0.1 ml serum for each additional allergen.	SS
RBC	85041	Red Blood Cell Count (RBC)	5 ml EDTA whole blood; minimum 2 ml or one full (0.5-0.7) lavender microtainer	L
XRSTL	84376	Reducing Substances, Stool*	Random stool specimen in clean (white-capped) vial.	ST
XDREN	84244	Renin, Direct*	Patient should be on a normal sodium diet. Draw blood in a lavender EDTA tube; centrifuge; separate plasma from cells and send 1.5 ml plasma; FROZEN	L
	86756	Respiratory Syncytial Virus Antibodies (RSV)*	1ml serum; separate and refrigerate	SS
RSVNA	87420	Respiratory Syncytial Virus Antigen, NAA	Nasal pharyngeal swab submitted in viral culture media or nasal pharyngeal aspirate in sterile tube. Submit on cold pack. CALL FOR STAT pickup.	
RSVR	87634	Respiratory Syncytial Virus Antigen with PCR	Nasal pharyngeal swab submitted in viral culture media or nasal pharyngeal aspirate in sterile tube. Submit on cold pack. CALL FOR STAT pickup	
XRETRT	86255	Reticulin Ab IgG screen* with reflex to titer	0.5 ml serum; 0.2 ml minimum; separate and refrigerate	SS
RETIC	85045	Reticulocyte Count	3 ml fresh EDTA whole blood	L
XVITA	84590	Retinol*	1 ml FROZEN serum; draw in plain red-top tube, fasting patient; free from alcohol for 24 hrs. PROTECT FROM LIGHT – place in Amber transport tube. CRITICAL FROZEN	R
RF	86431	Rheumatoid Factor	1 ml serum; minimum 0.5 ml; fasting specimen recommended	SS
XRIBP	83516	Ribosomal P Protein, IgG*	1 ml serum; 0.5 minimum; separate and refrigerate	SS
XTYPSP	86757 X2	Rickettsia typhi IgG/IgM Abs*	1 ml serum; 0.5 minimum; separate and FREEZE	SS
XVWACT	85575	Ristocetin Cofactor*	Blue Top/1 ml of citrate plasma; separate and FREEZE within 4 hours – part of Von Willebrand Panel	B

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XRITAL	80360	Ritalin*	2 ml FROZEN serum; draw in plain red-top tube; CRITICAL FROZEN, DO NOT USE SERUM SEPARATION TUBE	R
YRNP	86235	RNP Antibody*, IgG	4 ml serum, separate and refrigerate	SS
ROTA	87425	Rotavirus EIA	5 gm random stool specimen in clean (white-capped) vial	ST
RPR RPRTIT	86592 86593	RPR (titer performed if reactive)	1 ml serum; separate and freeze. DO NOT use siliconized tubes	SS
RUBIGG	86762	Rubella Antibody, IgG	1 ml serum; separate and refrigerate	SS
XRUBM	86762	Rubella Antibody, IgM*	1ml serum; separate and refrigerate	SS
RUBEOG	86765	Rubeola Antibody, IgG	1ml serum; separate and refrigerate	SS
XRUBOM	86765	Rubeola Antibody, IgM*	1ml serum; separate and refrigerate	SS
SALIC	G0480	Salicylates	1 ml serum; draw in plain red-top tube, separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XSACC	86671X2	Saccharomyces Cerevisiae IgG/IgA Abs*	1 ml serum; 0.5 ml minimum; separate and FREEZE	SS
XCOVWD	87365 U0003	SARS CoV2, Qualitative*	Collect nasopharyngeal swab; send FROZEN in viral transport media	VT
CVIGG2	86769	SARS CoV2 IgG Ab	2 ml serum; 1 ml minimum; separate and refrigerate	SS
YSCL70	86235	Scleroderma Antibodies (SCL 70)*	1ml serum; separate and refrigerate	SS
	80299	Secobarbital (Seconal)*	1ml serum; DO NOT USE SERUM SEPARATION TUBE	R
ESRWES	85652	Sedimentation Rate (Westergren)	3 ml EDTA whole blood	L
XSEL	84255	Selenium, Blood*	2 ml serum (Dark Blue, no additives) or plasma (DB, EDTA). Avoid use of glass, spin and separate serum/plasma from cells into plastic tube ASAP; refrigerate.	DB
SEMEN	89320	Semen Analysis	Call laboratory for instructions	
	80299	Serentil*	2 ml serum; protect from light; DO NOT USE SERUM SEPARATION TUBE	R

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XSRTIN	84260	Serotonin*, Serum (5- Hydroxytryptamine)	1ml serum; draw in plain red-top tube, separate and freeze into 2 plastic vials within 2 hours of collection. CRITICAL FROZEN	R
XSERB	84260	Serotonin, Blood*	Call laboratory for instructions	L
X5HIAT	83497 82570	Serotonin, Urine (5-Hydroxyindole Acetic Acid)*	Call laboratory for instructions	
XSRALQ	86022	Serotonin Release Assay, Low Molecular Weight Heparin*	1 ml serum; separate and refrigerate	SS
	80332/ G0480	Sertraline (Zoloft)*	2.0 ml serum; draw in plain red-top tube, separate serum from cells within 2 hours of collection, DO NOT USE SERUM SEPARATOR TUBE	R
YSHGB	84270	Sex Hormone Binding Globulin*	1ml serum; separate and FREEZE. Specify age and sex on request form.	SS
YSMITA	86235	Smith Antibody*, IgG	2 ml serum; separate and refrigerate	SS
XSPIGG	86317X14	Strep. Pneumoniae IgG Abs, 14 serotypes*	1 ml serum; 0.5 ml minimum; separate and refrigerate	SS
XSPN23	86317X23	Strep. Pneumoniae IgG Abs, 23 serotypes*	1 ml serum; 0.5 ml minimum; separate and refrigerate	SS
STRPZ	86063	Streptozyne Screen (titer performed if positive)	1 ml serum; separate and refrigerate, avoid hemolysis	SS
STRPZT	86060	Streptozyne Titer (only performed as reflex with positive Streptozyne)	2 ml serum; separate and refrigerate, avoid hemolysis	SS
AST	84450	SGOT (AST)	1 ml serum; avoid hemolysis; minimum 0.5 ml	SS
ALT	84460	SGPT (ALT)	1 ml serum; avoid hemolysis; minimum 0.5 ml	SS
SICKL	85660	Sickle Cell Screen	3 ml fresh EDTA whole blood; minimum 1 ml	L
XSIRO	80195	Sirolimus*	1 ml EDTA lavender top tube whole blood; refrigerate	L
YSJAAB	86235 x2	Sjögren's Antibodies (SS-A and SS-B)*	1 ml serum; separate and freeze	SS
YENA	86235 x2	SM and RNP Antibodies*	1 ml serum; separate and refrigerate	SS
YSMITA	86235	Smith Antibody*	1 ml serum; separate and refrigerate	SS
NA	84295	Sodium, Serum	1 ml serum; avoid hemolysis; minimum 0.5 ml	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
TUNA	84300	Sodium, Urine, 24 Hr.	24 hour urine specimen collected without preservative	24U
XSLA	83516	Soluble Liver Antigen Abs*	1 ml serum; 0.5 ml minimum; separate and refrigerate	SS
XSTR	84238	Soluble Transferrin Receptor	1 ml serum; 0.5 ml minimum; separate and refrigerate	SS
YIGF1	84305	Somatomedin-C* (IGF-1, Insulin Growth Factor-1)	2 ml serum; allow specimen to clot 30-60, centrifuge, separate serum from cells and refrigerate	SS
	84307	Somatostatin	2 ml plasma; draw specimen in a pre chilled lavender EDTA tube, centrifuge, separate and FREEZE plasma.	L
UASG	81003	Specific Gravity	10 ml fresh random urine	U
XSPABS	89325 x2	Sperm Antibodies*	2 ml serum; separate and refrigerate	SS
SEMNPV	89321	Sperm Count Post Vas	Call laboratory for instructions	
	87206	Stain, Acid Fast	Aseptically collected specimen in sterile container	
	80342	Stelazine*	2 ML serum; draw in plain red-top tube; DO NOT USE SERUM SEPARATION TUBE	R
XCALC	82365	Stone Analysis (Calculus)*	Identify source. Entire recovered stone in clean, dry, labeled container	
XUCSUB	80348 G0480	Suboxone, urine*	10 ml random urine; 5 ml minimum; refrigerate	U
		Synovial Fluid Tests Available	Culture: 1 ml fluid in plain red top tube Cell Count: 1 ml fluid in lavender top tube Glucose: 1 ml fluid in gray top tube Protein/crystals: 2 ml fluid in red top tube Tests must be ordered individually.	R L GY R
SPNUAG	87450	Strep pneumoniae urinary antigen	Refrigerate urine. CSF also acceptable	U
STRPZ STRPZT	86063 86060	Streptozyme Streptozyme titer (performed if positive)	1 ml serum, separate and refrigerate	SS
XT4T8	86360	T-Helper/Suppressor Panel*	1 lavender whole blood, at room temperature; if a CBC is also requested, a separate lavender top tube must be drawn	L
YFRT3	84481	T3, Free*	1 ml serum; separate and refrigerate	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XRT3	84482	T3 Reverse*	1 ml serum; separate and refrigerate	SS
FT4	84439	T4, Free	1 ml serum; separate and refrigerate, minimum 0.5 ml	SS
YACRI	80197	Tacrolimus (Prograf)*	1 ml EDTA whole blood; refrigerate	L
XFLCND	80299	Tambocor*	1 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XHEXOW	83080 x2	Tay Sachs*	10-15 ml whole blood in ACD tube, refrigerate, sample must reach the reference lab within 48 hours of collection	ACD
YQFTB	86480	TB QuantiFERON Gold*	Test requires special collection kit, contact laboratory	
XTBG	84442	TBG (Thyroxine-Binding Globulin)*	1 ml serum, separate and refrigerate	SS
CARBAM	80156	Tegretol	1 ml serum; state time post dose; DO NOT USE SERUM SEPARATION TUBE; State hours post med	R
XFCARB	80157	Tegretol, Free*	1 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XTEICH	86329	Teichoic Acid Antibodies*	1 ml serum; separate from cells within 2 hours of collection, refrigerate	SS
YTFBFC	82040 84270 84403	Testosterone, Free and Bioavailable, Female or Child*	2 ml serum; separate and refrigerate	SS
XTESFB	82040 84270 84403	Testosterone, Free and Bioavailable, Male*	3 ml serum; separate and refrigerate	SS
TESTO	84403	Testosterone, Serum	1 ml serum; minimum 0.5 ml	SS
XTAB	83617	Tetanus Antibodies*	2 ml serum; separate and refrigerate	SS
	80307/ G0479	THC-100 (Marijuana), Qual.*	See Drug Screen Panel. Clinical or Forensic	U
XUTHAL	83018	Thallium, Urine*	24 hour urine collection; refrigerate	24U
THEOPH	80198	Theophylline (Aminophylline)	1 ml serum; minimum 0.5 ml serum; DO NOT USE SERUM SEPARATION TUBE; State hours post med	R

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
XVITB1	84425	Thiamine*	2 ml whole blood; draw in a lavender EDTA tube, transfer whole blood to an amber screw-capped vial and send FROZEN, PROTECTED FROM LIGHT. CRITICAL FORZEN.	L
XTHIOC	84430	Thiocyanate*	2 ml serum; draw in a plain red-top tube, separate within 2 hours, refrigerate	R
XTHRID	80342	Thioridazine (Mellaril)*	2.0 ml serum; protect from light; DO NOT USE SERUM SEPARATION TUBE	R
XTHTHX	80342/ G0480	Thiothixene (Navane)*	1 ml serum; draw in plain red-top tube, separate from cells with 2 hours of collection, DO NOT USE SERUM SEPARATION TUBE	R
XTHRZN	G0480	Thorazine*	6 ml serum; draw 2 Red Top tubes. DO NOT USE SERUM SEPARATION TUBE; protect from light	R
YTHYGG	86376 86800	Thyroid Antibody Group (Includes Anti-thyroglobulin and Anti-peroxidase)*	1 ml serum; separate and refrigerate	SS
YTPAA	86376	Thyroid Peroxidase*	1 ml serum; separate and refrigerate	SS
TSH	84443	Thyroid Stimulating Hormone (TSH) (High Sensitivity)	1 ml serum; separate and refrigerate, free from hemolysis	SS
XTSI2	84445	Thyroid Stimulating Immunoglobulins (TSI)*	3 ml serum; separate and refrigerate.	SS
XTSH	83519	Thyroid Stimulating Hormone (TSH) Receptor Ab*	1 ml serum; separate and refrigerate.	SS
XTTGG	83516	Tissue Transglutaminase IgG Ab	1 ml serum; separate and refrigerate.	SS
YTTGA	83516	Tissue Transglutaminase IgA Ab	1 ml serum; separate and refrigerate.	SS
TOBRAM TOBRAT TOBRAP	80200 80200 80200	Tobramycin (Nebcin) Trough Peak	(Hours post med) 1 ml serum; state Trough 1 ml serum; state Peak DO NOT USE SERUM SEPARATION TUBE	R
	80375	Tocainide, (Tonocard)*	1 ml serum; draw in a plain red-top tube, centrifuge and separate from cells. DO NOT USE SERUM SEPARATOR TUBE	R
XVITEA	84446	Tocopherol*	1 ml serum; draw after 12-14 hr fast. No alcohol for 24 hrs prior to draw; separate from cells	SS

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
			within 2 hours, send in amber vial, PROTECT FROM LIGHT. CRITICAL FROZEN	
XIMIPR	80335/ G0480	Tofranil*	1 ml serum; centrifuge and separate within 2 hours of collection, DO NOT USE SERUM SEPARATION TUBE	SS
	80375	Tonocard*	1 ml serum; draw in a plain red-top tube, centrifuge and separate from cells. DO NOT USE SERUM SEPARATOR TUBE	R
YALCSC	84600	Toxic Alcohol Screen, Serum *	2 ml whole blood; collect one gray-top Potassium Oxalate/Sodium Fluoride tube or one plain red-top tube. Also acceptable: one SST tube. Serum tube (plain red top or SST): Let specimen clot for 30 minutes and centrifuge to separate serum from cells within one hour of collection. Transfer serum to a plastic transport tube, cap immediately and refrigerate. DO NOT USE ALCOHOL SWABS, USE BETADINE SEPP.	GY
TOXOG	86777	Toxoplasma Antibody, IgG	2 ml serum; separate and refrigerate, avoid hemolysis, lipemia and gross bacterial contamination; minimum 1 ml	SS
TOXOM	86778	Toxoplasma Antibody, IgM	2 ml serum; separate and refrigerate, avoid hemolysis, lipemia and gross bacterial contamination; minimum 1 ml	SS
TRFN	84466	Transferrin	1 ml serum; separate and refrigerate	SS
	80346/ G0480	Tranxene (Clorazepate)* (as Nordiazepam)	2 ml serum; refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
XTHIME	80342	Trazodone*	2.1 ml serum; protect from light; DO NOT USE SERUM SEPARATION TUBE	R
ITVG	87661	Trichomonas vaginalis, NAA	Collection Instructions: Vaginal or endocervical in Xpert Swab collection kit. Urine samples in Xpert Urine Specimen Collection kit (transferred within 4 hours)	
XTAD	80337/ G0480	Tricyclic Antidepressant*	2 ml serum; draw in plain red-top tube, separate and refrigerate. DO NOT USE SERUM SEPARATOR TUBE	R
TRIG	84478	Triglycerides	1 ml serum; fasting specimen; minimum 0.5 ml	SS
	80342/ G0480	Trilafon*	2 ml serum; draw in plain red-top tube, separate from cells within 6 hours of collection, refrigerate. NO NOT USE SERUM SEPARATION TUBE.	R
TROP	84484	Troponin-I	Specimen must be received in lab within 3 hrs of collection. Avoid hemolysis	GNL

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
	82131	Tryptophan	2 ml serum; separate ASAP after clotting; Call lab regarding special diet. CRITICAL FROZEN	SS
TSH	84443	TSH (High Sensitivity)	1 ml serum; separate and refrigerate, free from hemolysis	SS
XTSH	84238	TSH Receptor Ab*	1 ml serum; separate and refrigerate	SS
	86668 x2	Tularemia Antibody*	1 ml serum; separate from cells within 2 hours of collection, refrigerate, avoid hemolysis	SS
ACETA	G0480	Tylenol	1 ml serum; avoid hemolysis. DO NOT USE SERUM SEPARATION TUBE.	R
XMUCUL	87109	Ureaplasma Culture*	a. Genital sample in special transport media, or b. Respiratory sample (throat swab, sputum) in special transport media. Refrigerate. Indicate source. Call laboratory for transport media	
BUN	84520	Urea Nitrogen (BUN), Blood	1 ml serum; separate and refrigerate, minimum 0.5 ml	SS
URIC	84550	Uric Acid, Serum	1 ml serum; separate and refrigerate, minimum 0.5 ml	SS
TUUA	84560	Uric Acid, Urine, 24 Hour	24 hr urine specimen collected without preservative	24U
RUUA	84560	Uric Acid, Random Urine	10 ml fresh random urine	U
UACMP	81001	Urinalysis, Complete (with microscopic)	10 ml fresh random urine. Place in urine preservative tube	UP
UARFX	81003	Urinalysis (Chem. Only) Reflex to microscopic if indicatedminbal	10 ml fresh random urine. Place in urine preservative tube	UP
	81002	Urobilinogen, Urine	10 ml random urine; protect from light	U
XDIAZP	80346/ G0480	Valium*	2 ml serum; DO NOT USE SERUM SEPARATION TUBE; separate and refrigerate	R
VALPRO	80164	Valproic Acid (Depakene)	1 ml serum; minimum 0.5 ml; DO NOT USE SERUM SEPARATION TUBE; State hours post med	R
XFRVAL	80165	Valproic Acid (Depakene), Free*	1 ml serum; separate and refrigerate. DO NOT USE SERUM SEPARATION TUBE	R
VANCO	80202	Vancomycin	1 ml serum; specify Peak	R
VANCOP	80202	Peak	1 ml serum; specify Trough	
VANCOT	80202	Trough	DO NOT USE SERUM SEPARATION TUBE	
XVMA	84585	Vanillylmandelic Acid*	24 hr urine specimen collected with	24U

TEST CODE	CPT	TEST NAME	SPECIMEN REQUIREMENTS	TUBE CODE
	82570	(VMA)	25 ml 6N HCl	
VARIGG	86787	Varicella-Zoster Antibody IgG, (Immune Status)	1 ml serum; separate and refrigerate	SS
XVARM	86787	Varicella-Zoster Antibody, IgM*	1 ml serum; separate ASAP and refrigerate	SS
XVIPSP	84586	Vasoactive Intestinal Polypeptide (VIP)*	Call lab for special instructions; fasting patient; CRITICAL FROZEN	SS
RPR	86592	VDRL	1 ml serum; separate and refrigerate	SS
XVRAPA	80299	Verapamil (Isoptin)*	Serum: 1 Red Top: draw 1-2 hours after last dose (peak value). Indicate SERUM on request form and label specimen accordingly. Plasma: Green Top–heparin tube: draw 1-2 hours after last dose (peak value). Indicate PLASMA on request form DO NOT USE SERUM SEPARATION TUBE	R
XVISCO	85810	Viscosity*	3 ml serum; separate and refrigerate	SS
XVITA	84590	Vitamin A (Retinol)*	1 ml FROZEN serum; draw in plain red-top tube, fasting patient; free from alcohol for 24 hrs.- PROTECT FROM LIGHT – place in Amber transport tube. CRITICAL FROZEN	R
XVITB1	84425	Vitamin B-1 (Thiamine)* Whole Blood	2 ml whole blood; draw in a lavender EDTA tube, transfer whole blood to an amber screw-capped vial and send FROZEN, PROTECTED FROM LIGHT. CRITICAL FROZEN.	L
XVB2	84252	Vitamin B2 (Riboflavin)*	2 ml plasma; draw in a lavender EDTA tube, separate cells from plasma and send plasma FROZEN in amber plastic vial. FROZEN, PROTECT FROM LIGHT	L
XNIACN	84591	Vitamin B3 (Niacin)*	1 ml serum; draw specimen in plain red-top tube, centrifuge within 2 hours of collection, refrigerate	SS
XVB5	84591	Vitamin B5 (Pantothenic Acid)*	2 ml serum; draw in a plain red-top tube, separate serum from cells and send FROZEN serum	SS
XVITB6	84207	Vitamin B-6* (Pyridoxal Phosphate) (Pyridoxine)	2 ml plasma; separate and freeze within 6 hours of collection in amber transport tubes (1 ml each) to protect from light. CRITICAL FROZEN	L
XVB7	84591	Vitamin B7 (Biotin)	2 ml serum; 1 ml minimum; separate and PROTECT FROM LIGHT	SS

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B12	82607	Vitamin B-12	1 ml serum; separate and refrigerate, avoid hemolysis	SS
XVITC	82180	Vitamin C (Ascorbic Acid)*	2 ml; green top (lithium heparin) tube; separate plasma; PROTECT FROM LIGHT. CRITICAL FROZEN. Patient should fast overnight, and refrain from Vitamin C intake for 24 hours.	GN
YD20H	82652	Vitamin D, 1, 25-Dihydroxy*	2 ml serum; separate and refrigerate. Specify Vitamin D, 1, 25-Dihydroxy	SS
VITD	82306	Vitamin D, 25-Hydroxy	2 ml serum; separate and refrigerate	SS
XVITEA	84446	Vitamin E* (Alpha and Gamma Tocopherol)	1 ml serum; draw after 12-14 hr fast. No alcohol for 24 hrs prior to draw; separate from cells within 2 hours, send in amber vial, PROTECT FROM LIGHT. CRITICAL FROZEN	SS
XVITK	84597	Vitamin K*	1 ml serum; remove from cells within 1 hour of collection, send FROZEN, PROTECT FROM LIGHT	SS
XVMA	84585 82570	VMA*	24 hr urine specimen collected with 25 ml 6N HCl	24U
XVWPAN	85240 85245 85246	Von Willebrand Panel (Includes Factor VIII AG, Ristocetin Cofactor and Factor VIII Activity)*	10 ml citrated plasma. FREEZE IMMEDIATELY in 3 aliquots.	2B
XSBUPR	80338/ G0480	Bupropion* (Wellbutrin)	2 ml FROZEN serum; DO NOT USE SERUM SEPARATION TUBE. Freeze serum within 2 hours	R
WBC	85048	White Blood Cell Count (WBC)	3 ml EDTA whole blood; minimum 2 ml or one full (0.5-0.7 ml) lavender microtainer	L
XZRNTN	80168	Zarontin*	1 ml serum; DO NOT USE SERUM SEPARATION TUBE, refrigerate	R
XZNRBC	84630	Zinc, RBC*	5 ml whole blood, draw in dark blue EDTA tube, centrifuge and separate cells from plasma within 2 hours of collection. Send cells and plasma	DB
XZINC	84630	Zinc, Plasma*	2 ml serum; collect in royal blue top tube (without EDTA or preservatives); allow to clot at room temperature for 30 min., centrifuge for 10 min and separate serum from cells immediately. Avoid hemolysis.	DB
XRUZNC	84630	Zinc, Urine*	10 ml random or 24 hour urine specimen collected; refrigerate. Protect from light – transfer to amber tubes	24U/U

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