

TEST LISTING TABLE OF CONTENTS

	A
	B
	C
	D
	E
	F
	G
	H
	I
	K
	L
	M
	N
	O
	P
	Q
	R
	S
	T
	U
	V
	W

TEST LISTING A

Acetaminophen
Acetylsalicylic Acid (as Salicylates)
Acid Fast Bacilli (AFB) Culture, Mycobacteria
ACTH Stimulation
Affirm™ Vaginosis DNA Probe Panel
AFP Tumor Marker
Albumin, Fluid
Albumin, Serum
Alcohol, (Ethanol) - ETOH
Alkaline Phosphatase
Alpha-1-Antitrypsin, Serum
ALT (SGPT)
Ammonia (NH3), Plasma
Amnisure
Amylase, Body Fluid
Amylase, Serum
Amylase, Urine 24 Hr
Amylase, Urine Random
ANA (Antinuclear antibodies)
Anaerobic Culture
ANCA (Anti-Neutrophil Cytoplasmic Antibodies)
Anti-Cardiolipin Antibody Screen
Anti-dsDNA
Anti-Extractable Nuclear Antigen (Anti- ENA Antibodies)
Anti-Gliadin Antibody Profile
Anti-Mitochondrial Antibody
Anti-Myeloperoxidase Antibody (Anti-MPO) (part of ANCA panel)
Anti-Nuclear Ab (ANA)
Anti-SCL-70 (Scleroderma)
Anti-Sjogrens SSA/SSB Ro/La Antibody
Anti-Thyroglobulin Antibody (ATG)
Anti-Thyroid Antibody Profile
Antibody Screen w/reflex Identification
Antibody Titer
Antigen Typing (per antigen)

[Click here to continue...](#)

TEST LISTING A

Antistreptolysin O Ab

Aspirin (as Salicylates)

AST (SGOT)

TEST LISTING B

B-type Natriuretic Peptide (BNP)

Barbiturates, Urine

Basic Metabolic Chemistry Panel

BD Affirm™ Vaginosis DNA Probe Panel

Benzodiazepines, Urine

Beta hcG, Quantitative

Beta Strep Group A PCR

Beta-2 Microglobulin, Serum

Beta-Hydroxybutyric Acid

Bilirubin, Direct

Bilirubin, Neonatal Profile

Bilirubin, Total

Bilirubin, Total Body Fluid

Bilirubin, Total Neonatal

Blood Culture, Acid-Fast Bacillus (AFB)

Blood Culture (Fungal), Constant Monitoring (Automated)

Blood Culture (Routine, Bacterial), Constant Monitoring (Automated)

Blood Group & Rh

BNP, Brain Natriuretic Peptide (see Brain Natriuretic Peptide, BNP)

Body Fluid Culture, Sterile Site, Bacterial

Bone Culture, Bacterial

Brain Natriuretic Peptide, BNP

Breath Test (H. pylori)

Bronchial Culture, Bacterial

BUN (see Urea Nitrogen, Blood)

TEST LISTING C

C- Reactive Protein (CRP)

C-Peptide

C-Reactive Protein, High Sensitivity

C3, Serum

C4, Serum

CA 125

Calcium

Calcium, Ionized (Inpatient only)

Calcium, Ionized (Outpatient)

Calcium, Urine

Calcium, Urine 24 - Hour

Cannabinoid, Urine (THC)

Carbamazepine (Tegretol) - total

Carbon Dioxide, CO2

Cardio CRP

Cardiolipin Ab w/reflex IgG, M

Catheter Tip Culture, Bacterial

CBC w/Diff & Plt

CBC Without Differential (Hemogram), Whole Blood

CCP Antibodies

CEA

Celiac Serology

Cell Count w/Diff, Fluid

Chlamydia trachomatis Amplified Probe - DNA Detection

Chlamydia trachomatis/GC Amplified Probe - DNA Detection

Chloride

Chloride, Fluid

Chloride, Urine (Random)

Chloride, Urine (24-Hour)

Cholesterol, Fluid

Cholesterol, Total

CK Isoenzymes (CKMB w/index)

CK, Total

Clostridioides difficile (CDIF) Toxin, A/B Assay Panel

Cocaine, Urine

[Click here to continue...](#)

TEST LISTING C (continued)

Complement C3, Serum

Complement C4, Serum

Complete Blood Count (CBC)

Comprehensive Drug Screen

Comprehensive Metabolic Chemistry Panel

Coombs, Direct (see DAT)

Coombs, Indirect (Antibody Screen)

Cord Blood Workup

Cortisol (AM)

Cortisol (PM)

Cortisol Stimulation

Cortisol, Total, Serum

COVID-19

Creatinine

Creatinine Clearance

Creatinine, Fluid

Creatinine, Urine Random

Creatinine, Urine 24-Hour

Crossmatch, AHG (full)

Crossmatch, Immediate spin

Cryptosporidium Antigen Rapid EIA, Stool

Crystal Id, Fluid

CSF Culture

TEST LISTING D

DAT, Direct Antiglobulin Test

D-Dimer

Dehydroepiandrosterone Sulfate (DHEAS)

Depakene (Valproic Acid) Total

Dialysate (Peritoneal) Culture, Bacterial

Digoxin (Lanoxin)

Dilantin (Phenytoin) - Total

Drug Screen,Urine

Drug Screen, Urine with Confirmation

TEST LISTING E

Ear Culture, Bacterial

ENA Ab (Sm/RNP)

Endomysial Antibody

Environmental Culture

Eosinophil Smear, Sputum-Bronch

Eosinophils, Absolute

Eosinophils, Urine

Epstein-Barr Ab Panel

ESR

Estradiol, E2

Ethyl Alcohol - Serum

Ethyl Alcohol - Urine

Eye Culture, Bacterial

TEST LISTING F

Fecal Lactoferrin

Fecal Occult Blood, Stool, Diagnostic (Guaiac Method)

Fecal Occult Blood, Stool, Screening (Guaiac Method)

Fecal Occult Blood, Stool, Screening FOBT (Immunochemical)

Fentanyl (Urine)

Ferritin

Fetal Fibronectin

Fibrinogen

Folate, Serum

Folic Acid (**see** "Folate, Serum")

Follicle Stimulating Hormone (FSH)

Free PSA Profile

Fungal Smear, Direct

Fungus Culture

TEST LISTING G

Garamycin (Gentamicin)

Gastrointestinal Panel PCR

GC Amplified Probe - DNA Detection

GC/Chlamydia trachomatis Amplified Probe - DNA Detection

GC Culture Screen

Genital Culture, Bacterial

Gentamicin, Peak/ Trough (**see** "Garamycin (Gentamicin)")

GGT (Gammaglutamyl transferase)

Giardia Antigen, Rapid EIA, Stool

Glucose Challenge, 1-hour (Gestational Diabetes Screen 1 Hour GTT)

Glucose Tolerance, 2-Hour (Non Pregnant)

Glucose Tolerance, 3-Hour (Gestational)

Glucose, CSF

Glucose, Fluid

Glucose, Plasma

Glucose, Serum

Glucose, Urine 24hr

Gram Stain

Group B Strep Screen, by PCR

TEST LISTING H

H. pylori Breath Test
 Haptoglobin
 hCG, QL, Serum
 hCG, QL, Urine
 hCG, Quantitative Serum
 hCG, Tumor, Serum
 HCV RNA, PCR (see Hepatitis C Viral RNA)
 HDL Cholesterol
 Helicobacter Pylori, IgG, Abs
 Hematocrit
 Hemoglobin
 Hemoglobin A1C
 Hemoglobin & Hematocrit
 Heparin Anti-Xa
 Hepatic Function Panel
 Hepatitis A Antibody, IgM
 Hepatitis A Antibody, Total
 Hepatitis A , B & C Profile
 Hepatitis A Profile
 Hepatitis B Core Antibody, IgM
 Hepatitis B Core Antibody, Total
 Hepatitis B Immune Profile
 Hepatitis B Surface Antibody (HBSAb)
 Hepatitis B Surface Antibody, Quantitative
 Hepatitis B Surface Antigen (HBSAg)
 Hepatitis C Antibody
 Hepatitis C Viral RNA
 Herpes Simplex Virus I/II, IgG
 Herpes Simplex Virus I/II, IgM
 HIV 1/2 Antibody (EIA), Serum
 HIV-1 RNA (HIV Viral Load)
 HIV-1 Viral Load
 Homocysteine

TEST LISTING I

IFE - See - Immuofixation Serum or Urine

IgA, Serum

IgE, Total

IgG, Serum

IgM, Serum

Immature Platelet Fraction

Immuno Profile (GAME & Complement)

Immunofixation, Serum

Immunofixation,Urine

Immunoglobulins, Quantitative (GAME)

India Ink Preparation (for Cryptococcus)

Influenza (FLU) A/B PCR

INR

Insulin

Iron

Iron & TIBC, w/ Transferrin Calculation, Serum

TEST LISTING K

Kleihauer-Betke stain

KOH Prep

TEST LISTING L

Lactate, Blood (Lactic Acid)

Lactate Dehydrogenase (LDH)

Lactate Dehydrogenase, Fluid

Lanoxin (Digoxin)

LDH (see Lactate Dehydrogenase)

LDL Cholesterol, Direct

Legionella Urinary Antigen

LH (see Luteinizing Hormone)

Lipase, Fluid

Lipase, Serum

Lithium, Serum

Liver Function Panel, Serum

Luteinizing Hormone (LH)

Lyme Antibodies, IgG & IgM (Borrelia Burgdorferi)

TEST LISTING M

Magnesium

Malaria Smear, Blood (see Parasite Smear, Blood)

Meningitis Encephalitis Panel

Methotrexate

MIC/Additional Susceptibility Drugs

Microalbumin, Urine

Microalbumin, Urine 24-Hour

Microscopic Exam, Urine

Mixing Studies ,Coagulation (see PT or PTT Mixing Studies)

M.M.R. Screen Profile

Mono Screen

Mouth Culture, Bacterial

MRSA Surveillance PCR

Mumps Ab (IgG)

Mycoplasma pneumoniae Culture

Myeloperoxidase Ab (see ANCA Abs)

TEST LISTING N

Norovirus, RT-PCR

Nose Culture, Bacterial

NH3 (see Ammonia)

TEST LISTING O

Occult Blood, Gastric

Opiates, Urine

Organism Identification, Plated Isolate

Osmolality, Serum

Osmolality, Urine

Ova & Parasites, Stool

TEST LISTING P

Parasite Identification

Parasite Smear, Blood

Parathyroid Hormone, Intact

PEP, 24 hour urine

PEP, Serum

Peripheral Blood Smear Interpretation

pH, Fluid

pH, Stool

pH, Urine

Phenytoin (Dilantin)

Phosphorus, 24-hour urine

Phosphorus, Urine Random

Phosphorus

Pinworm Examination

Platelet Count

Pneumocystis Direct FA

Potassium

Potassium, Plasma

Potassium, Urine 24-Hour

Potassium, Urine Random

Prealbumin

Pro BNP (order as BNP)

Procalcitonin

Progesterone

Prolactin, Serum

Protein Electrophoresis - 24 Urine

Protein Electrophoresis - Serum

Protein, Total

Protein, Total, CSF

Protein, Total, Fluid

Protein, Total, Urine 24-Hour

Protein, Urine, Random

Prothrombin Time (see PT)

Prothrombin Time Mixing Studies (see PT Mixing Studies)

[Click here to continue...](#)

TEST LISTING P (continued)

PSA, Complexed (Free PSA profile)

PSA, Total

PT/INR

PT Mixing Studies

PTH, Intact

PTT

PTT Mixing Studies

TEST LISTING Q

Quantiferon TB Gold Plus (QFT Plus)

TEST LISTING R

RBC

Respiratory Pathogen Panel PCR

Reticulocyte Count

Rheumatoid Factor

RSV (Respiratory Syncytial Virus) PCR

Rubella Antibodies IgG

Rubeola (Measles) Immunity Screen, IgG

TEST LISTING S

Salicylate, Serum

Scabies Mite Examination

Sedimentation Rate (see ESR)

Sex Hormone Binding Globulin, Serum

SGOT (see AST)

SGPT (see ALT)

Shiga-Toxin Assay (see Gastrointestinal Panel PCR)

Sickle Cell Screen

Sinus Culture, Bacterial Aerobic

Sjogren's SS-A & SS-B Ab

Sm/RNP Ab (see- ENA antibodies)

Sodium

Sodium, Urine 24-Hour

Specific Gravity, Fluid

Specific Gravity, Urine

Sputum Culture, Bacterial

SS-A & SS-B: see "Sjogren's SS-A & SS-B Ab"

Stool Culture, Bacterial (see Gastrointestinal Panel PCR)

Stool Culture for E. coli O157:H7 (see Gastrointestinal Panel PCR)

Stool Culture for Vibrio (see Gastrointestinal Panel PCR)

Stool for WBCs (see Fecal Lactoferrin)

Strep pneumoniae, Urinary Antigen

TEST LISTING T

T3, Free

T3, Total

T4, Total

Tegretol (Carbamazepine) -Total

Testosterone, Free

Testosterone, Free + Weakly Bound

Testosterone, Total

THC metabolite (Marijuana)

THC ,Urine

Throat Full Culture, (All Pathogens)

Thyroglobulin Ab (ATG)

Thyroid Antibodies (ATG, ATPO)

Thyroid Function Cascade

Thyroid Peroxidase Ab (TPO)

Thyroid Stimulating Hormone (TSH)

Thyroxine, Free (Free T-4)

Thyroxine, Total (T4)

Tick Identification

Tissue (Biopsy) Culture, Bacterial

Transferrin Saturation

Treponemal Antibody

Triglycerides

Triglycerides, Fluid

Triiodothyronine (T-3)

Troponin I, High Sensitivity

TSH: see Thyroid Stimulating Hormone

t-Transglutaminase (tTG) IgA

TEST LISTING U

Urea Clearance, Urine 24 hr

Urea Nitrogen, Blood

Urea Nitrogen, Fluid

Urea Nitrogen, Urine

Urea Nitrogen, Urine 24-Hour

Uric Acid, Blood

Uric Acid, Fluid

Uric Acid, Urine

Uric Acid, Urine 24-Hour

Urinalysis, Complete

Urinalysis, Reflex to Culture

Urine Culture

Urine Drug Screen

Urine Drug Screen, Individual Drug

Urine Drug Screen with Confirmation

TEST LISTING V

Vaginosis DNA Probe Panel

Valproic Acid (Depakote)

Vancomycin, Peak

Vancomycin, Trough

Varicella Zoster Ab, IgG

Vitamin B12, Serum

Vitamin B12 & Folate

Vitamin D, 25-Hydroxy

Volatiles Panel

VRE Culture Screen, Stool

VZV Ab (IgG), EIA

TEST LISTING W

WBC

WBC & Differential

Wet Prep, Vaginal

Wound Culture, Abscess, Bacterial Aerobic/ Anaerobic

Wound Culture, Abscess, Bacterial Aerobic Only

Wound Culture, Cyst, Bacterial Aerobic Only

Wound Culture, Deep Site, Bacterial Aerobic/Anaerobic

Wound Culture, Deep Site, Bacterial Aerobic Only

Wound Culture, Surface Site, Bacterial Aerobic

Acetaminophen

Ordering Mnemonic	ACETAMIN		
CPT Code	82003	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Plain red-top tube (Do NOT use barrier tube)
Minimum Amount	1 mL
Other Specimen Requirements	

Reference Ranges

Adult	10-30 mg/L
-------	------------

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	>100 mg/L
-------	-----------

Acid Fast Bacilli (AFB) Culture, Mycobacteria

Test Includes: Direct Kinyoun smear performed on site, sample forwarded to reference lab for Mycobacterial Culture and Fluorochrome smear

Ordering Mnemonic AFBC

CPT Code	87015, 87206, 87116 if positive add 87150, 87186 or 87143	Department	Microbiology & Reference Lab
-----------------	---	-------------------	---------------------------------

Testing Frequency	7 days/week	Turn Around Time	Smear: 1 day Culture: 8 weeks
--------------------------	-------------	-------------------------	--

Collection

Specimen	Multiple source types
Specimen Container	Any properly collected clinical specimen.
Minimum Amount	2 mL
Other Specimen Requirements	Must identify source/body site. In patients with clinical findings and chest x-rays compatible with tuberculosis, diagnostic guidelines recommend submission of 3 test samples collected on consecutive collection dates and should include one first morning specimen.

Reference Ranges

Adult	Smear: No acid-fast bacilli noted Culture: Mycobacterium sp. Not found
--------------	---

Transport to Life Laboratories

Shipping Instructions	Refrigerated
------------------------------	--------------

Critical Values

Positive smear/culture

Affirm™ Vaginosis DNA Probe Panel

Test Includes: DNA probe for *Candida* species, *Gardnerella vaginalis*, *Trichomonas vaginalis*

Ordering Mnemonic	VAGINOSIS		
CPT Code	87480, 87510, 87660	Department	Immunology
Testing Frequency	Mon-Sat	Turn Around Time	Within 24 hours

Collection	
Specimen	Vaginal Swab
Specimen Container	Affirm™ VPll swab collection tube
Minimum Amount	Swab in VPll tube
Other Specimen Requirements	ATTS (ampule) fluid must be added to swab sample to stabilize specimen

Reference Ranges
Negative

Transport to Life Laboratories	
Shipping Instructions	Preserved sample with ATTS fluid stable at room temperature (15-30C) or refrigerated (2-8C) for up to 72 hours prior to testing

AFP Tumor Marker

Ordering Mnemonic	AFPTM		
CPT Code	82105	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	

Reference Ranges

Adult	0.0-8.0 ng/mL
--------------	---------------

Transport to Life Laboratories

Shipping Instructions

Albumin, Fluid

Ordering Mnemonic	BFALB		
CPT Code	82042	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Fluid
Specimen Container	Fluid in a sterile plastic tube
Minimum Amount	1 mL body fluid
Other Specimen Requirements	Identify type or source of fluid and label appropriately. Do NOT submit fluid specimen in a syringe

Reference Ranges

No reference range

Transport to Life Laboratories

Shipping Instructions

Albumin, Serum

Ordering Mnemonic	ALB		
CPT Code	82040	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	

Reference Ranges

Adult	3.2-5.0 G/dL
--------------	--------------

Transport to Life Laboratories

Shipping Instructions

Alcohol, (Ethanol) - ETOH

Ordering Mnemonic	ETOH		
CPT Code	80320	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Cleanse collection site with non-alcoholic agent before drawing blood

Reference Ranges

Adult	0-10 mg/dL
--------------	------------

Transport to Life Laboratories

Shipping Instructions

Alkaline Phosphatase

Ordering Mnemonic	ALKP		
CPT Code	84075	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL
Other Specimen Requirements	

Reference Ranges

Adult	42-121 U/L	Pediatric	
		0 d. - 16 yr.	111 - 384 U/L

Transport to Life Laboratories

Shipping Instructions

Alpha-1-Antitrypsin, Serum

Ordering Mnemonic A1AT**CPT Code** 82103**Department** Chemistry**Testing Frequency** Contact Lab**Turn Around Time** Contact Lab

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 0.5 mL (NOTE: This volume does NOT allow for repeat testing.)**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 90 - 200 mg/dL

Transport to Life Laboratories

Shipping Instructions

ALT (SGPT)

Ordering Mnemonic	ALT		
CPT Code	84460	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.5 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	10-60 U/L
--------------	-----------

Transport to Life Laboratories

Shipping Instructions

Ammonia (NH₃), Plasma

Ordering Mnemonic	AMM		
CPT Code	82140	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Plasma
Specimen Container	Lavender-top tube with EDTA; place specimen on ice immediately
Minimum Amount	2 mL plasma
Other Specimen Requirements	Separate plasma within 20 minutes and freeze immediately. Keep specimen on ice

Reference Ranges

Adult	11-35 umol/L
--------------	--------------

Transport to Life Laboratories

Shipping Instructions	Ship frozen
------------------------------	-------------

Amnisure ROM

Ordering Mnemonic	AMNISURE		
CPT Code	84112	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Vaginal discharge
Specimen Container	Swab kit with vial
Minimum Amount	1 vial
Other Specimen Requirements	

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

Amylase, Body Fluid

Ordering Mnemonic	BFAMY		
CPT Code	82150	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Body Fluid
Specimen Container	Sterile container
Minimum Amount	1 mL
Other Specimen Requirements	Identify source/body site

Reference Ranges

No reference ranges have been established for body fluids.

Transport to Life Laboratories

Shipping Instructions

Amylase, Serum

Ordering Mnemonic	AMY		
CPT Code	82150	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	25-115 U/L
--------------	------------

Transport to Life Laboratories

Shipping Instructions

Amylase, Urine 24 Hr

Ordering Mnemonic UAMY24

CPT Code 82150

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Urine

Specimen Container 24 hour urine container

Minimum Amount 10 ml aliquot

Other Specimen Requirements Note 24 hour urine total volume collected

Reference Ranges

Adult 0-390 U/24hr

Transport to Life Laboratories

Shipping Instructions

Amylase, Urine Random

Ordering Mnemonic UAMYR**CPT Code** 82150**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Urine**Specimen Container** Sterile urine container**Minimum Amount** 2 ml urine**Other Specimen Requirements** Random urine

Reference Ranges

No reference range established

Transport to Life Laboratories

Shipping Instructions

ANA (Antinuclear antibodies)

Test Includes: ANA screen- reflexes to titer and pattern if positive

Ordering Mnemonic	ANA		
CPT Code	86038	Department	Immunology
Testing Frequency	Mon-Fri	Turn Around Time	2 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

Anaerobic Culture

Test Includes: Anaerobic Culture, Identification

Ordering Mnemonic ANC

CPT Code 87075

Department

Microbiology

Testing Frequency 7 days/week

Turn Around Time

5-7 days

Collection

Specimen Multiple source types

Specimen Container Culture swab in anaerobic transport media

Minimum Amount Swab from identified source

Other Specimen Requirements Specimens not submitted in Anaerobic Transport, culture results may be compromised; **Must identify source/body site.**

Reference Ranges

Adult No anaerobes noted

Transport to Life Laboratories

Shipping Instructions Room Temp

ANCA (Anti-Neutrophil Cytoplasmic Antibodies)

Test Includes: *Proteinase-3 (PR3) antibody and myeloperoxidase antibody*

Ordering Mnemonic **ANCA**

CPT Code 86021 x2

Department

Immunology

Testing Frequency 1 day/week

Turn Around Time

3 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

**Other Specimen
Requirements**

Reference Ranges

Adult Negative

Transport to Life Laboratories

Shipping Instructions

Anti-Cardiolipin Antibody Screen

Test Includes: Reflexes to cardiolipin IgG and IgM if positive

Ordering Mnemonic	ACA		
CPT Code	86147	Department	Immunology
Testing Frequency	1 day/week	Turn Around Time	3 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.1mL serum/allergen
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

Anti-dsDNA

Ordering Mnemonic **ADNADS****CPT Code** 86147**Department** Immunology**Testing Frequency** 1 day/week**Turn Around Time** 3 days

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 ml serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult Negative

Transport to Life Laboratories

Shipping Instructions

Anti-Extractable Nuclear Antigen (Anti- ENA Antibodies)

Test Includes: Anti-Smith (Sm) and Anti-RNP Antibodies

Ordering Mnemonic	ENA		
CPT Code	86235 x 2	Department	Immunology
Testing Frequency	1 days/week	Turn Around Time	3 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.4 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

Anti-Gliadin Antibody Profile

Test Includes: Gliadin IgG and IgA antibodies

Ordering Mnemonic GLIAD

CPT Code 83516 x 2

Department Immunology

Testing Frequency 1 day/week

Turn Around Time 3 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 0.3 mL Serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult Negative

Transport to Life Laboratories

Shipping Instructions

Anti-Mitochondrial Antibody

Ordering Mnemonic	AMAB		
CPT Code	86381	Department	Immunology
Testing Frequency	1 day/week	Turn Around Time	3 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.3 mL Serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

Anti-Myeloperoxidase Antibody (Anti-MPO) (part of ANCA panel)

Ordering Mnemonic **ANCA**

CPT Code **Department** Immunology

Testing Frequency 1 day/week **Turn Around Time** 3 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult Negative

Transport to Life Laboratories

Shipping Instructions

Anti-Nuclear Ab (ANA)

Test Includes: ANA screen- reflexes to titer and pattern if positive

Ordering Mnemonic	ANA		
CPT Code	86038	Department	Immunology
Testing Frequency	Mon-Fri	Turn Around Time	3 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Anti-SCL-70 Ab (Scleroderma)

Ordering Mnemonic	SCL70		
CPT Code	86235	Department	Immunology
Testing Frequency	Mon-Fri	Turn Around Time	3 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Anti-Thyroglobulin Antibody (ATG)

Ordering Mnemonic	ATG		
CPT Code	86800	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.2 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	<60 U/ml
--------------	----------

Transport to Life Laboratories

Shipping Instructions

Anti-Thyroid Antibody Profile

Test Includes: Anti-thyroglobulin (ATG) and Anti-thyroid peroxidase (ATPO)

Ordering Mnemonic	THYAB		
CPT Code	86800, 86376	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.5 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges
Refer to individual tests

Transport to Life Laboratories
Shipping Instructions

Antibody Screen with Reflex Identification

Test Includes: Antibody Screen, ID if antibody found

Ordering Mnemonic **ABSMETHOD**

CPT Code	Screen: 86850 ID: 86870	Department	Blood Bank
-----------------	--	-------------------	------------

Testing Frequency	7 days/week	Turn Around Time	1 day
--------------------------	-------------	-------------------------	-------

Collection

Specimen	Plasma
-----------------	--------

Specimen Container	Pink-top tube with EDTA as anticoagulant
---------------------------	--

Minimum Amount	1 mL Plasma
-----------------------	-------------

Other Specimen Requirements	Do NOT separate plasma from red cells
------------------------------------	---------------------------------------

Reference Ranges

Transport to Life Laboratories

Shipping Instructions	Ambient or Refrigerated
------------------------------	-------------------------

Antibody Titer

Test Includes: Antibody Screen, Antibody ID, Antibody Titer

Ordering Mnemonic TITER**CPT Code****Screen:** 86850**Department**

Blood Bank

ID: 86870**Titer:** 86886**Testing Frequency**

7 days/week

Turn Around Time

2 days

Collection**Specimen**

Plasma

Specimen Container

Pink-top tube with EDTA as anticoagulant

Minimum Amount

2 mL Plasma

Other Specimen Requirements

Do NOT separate plasma from red cells

Reference Ranges**Transport to Life Laboratories****Shipping Instructions**

Ambient or Refrigerated

Antigen Typing (per antigen)

Ordering Mnemonic	AGID		
CPT Code	86903, unit=86902; patient=86905, Rh phenotype= 86906	Department	Blood Bank
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Whole Blood
Specimen Container	Pink - top tube with EDTA
Minimum Amount	1-6 mL
Other Specimen Requirements	Do NOT separate plasma from red cells

Transport to Life Laboratories
Shipping Instructions

Antistreptolysin O Ab

Ordering Mnemonic	ASO		
CPT Code	86060	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

0-214 IU/mL

Transport to Life Laboratories

Shipping Instructions

AST (SGOT)

Ordering Mnemonic	AST		
CPT Code	84450	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	10-42 U/L
--------------	-----------

Transport to Life Laboratories

Shipping Instructions

B-type Natriuretic Peptide (BNP, ProBNP)

Ordering Mnemonic	BNP		
CPT Code	83880	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Plasma
Specimen Container	Plastic EDTA lavender-top tube
Minimum Amount	1 mL plasma
Other Specimen Requirements	Only Collect specimen in plastic EDTA Lavender -top

Reference Ranges	
Adult	<100 pg/ml

Transport to Life Laboratories	
Shipping Instructions	

Barbiturates, Urine

Ordering Mnemonic UBARB

CPT Code 80307

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Urine

Specimen Container Clean, dry container with no additives

Minimum Amount 10 mL urine

**Other Specimen
Requirements**

Reference Ranges

Adult Negative

Transport to Life Laboratories

Shipping Instructions

Basic Metabolic Chemistry Panel

Test Includes: Glucose, BUN, Creatinine, eGFR, Sodium, Potassium, Chloride, CO₂, Anion Gap, Calcium

Ordering Mnemonic	BMP		
CPT Code	80048	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Critical Values

Refer to individual tests

Benzodiazepines, Urine

Ordering Mnemonic **UBENZO**

CPT Code 80307

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Urine

Specimen Container Clean, dry container with no additives

Minimum Amount 10 mL urine

**Other Specimen
Requirements**

Reference Ranges

Adult Negative

Transport to Life Laboratories

Shipping Instructions

Beta-2 Microglobulin, Serum

Ordering Mnemonic B2MICRO

CPT Code 82232

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 ml serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 0.7-1.8 mg/L

Transport to Life Laboratories

Shipping Instructions

Beta-Hydroxybutyric Acid

Ordering Mnemonic	BHB		
CPT Code	82010	Department	Chemistry
Testing Frequency	Contact Lab	Turn Around Time	Contact Lab

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.5 mL
Other Specimen Requirements	Serum should be separated from cells within 2 hours of venipuncture.

Reference Ranges	
Adult	0.2 - 2.8 mg/dL

Transport to Life Laboratories	
Shipping Instructions	Serum should be separated from cells within 2 hours of venipuncture.

Beta Strep Group A PCR

Test Includes: Detection of Strep Group A (*S. pyogenes*) DNA, by NAAT.

Testing Note	Not for use as a Test of Cure post- antibiotic treatment, as non-viable Group A will be detected.		
Ordering Mnemonic	BSGADNA		
CPT Code	87651	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 - 2 days

Collection	
Specimen	Throat
Specimen Container	Routine (dual swab) culture transport (Liquid Amies or Liquid Stuart medium) or Eswab
Minimum Amount	Eswab or dual swab in transport medium
Other Specimen Requirements	

Reference Ranges
Negative Beta Strep Group A (<i>S. pyogenes</i>) DNA not detected

Transport to Life Laboratories
Shipping Instructions Transport samples refrigerated (2 - 8°C) or at room temperature (21 - 27°C)

Bilirubin, Direct

Ordering Mnemonic	DBIL		
CPT Code	82248	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	0.0-0.3 mg/dl
--------------	---------------

Transport to Life Laboratories

Shipping Instructions

Bilirubin, Neonatal Profile

Test Includes: Neonatal total, direct and indirect bilirubin.

Ordering Mnemonic	BBIL		
CPT Code		Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Amber pediatric microtainer tube
Minimum Amount	Full tube
Other Specimen Requirements	

Reference Ranges

See individual tests

Transport to Life Laboratories

Shipping Instructions

Bilirubin, Total

Ordering Mnemonic	BILT		
CPT Code	82247	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	0.0-1.4 mg/dl
--------------	---------------

Transport to Life Laboratories

Shipping Instructions

Bilirubin, Total Fluid

Ordering Mnemonic BFTBIL

CPT Code

Department

Chemistry

Testing Frequency 7 days/week

Turn Around Time

1 day

Collection

Specimen Body fluid

Specimen Container Clean, dry container with no additives

Minimum Amount 1 mL fluid

**Other Specimen
Requirements**

Reference Ranges

Adult No reference ranges have been established for body fluids.

Transport to Life Laboratories

Shipping Instructions

Bilirubin, Total Neonatal

Ordering Mnemonic	BTB		
CPT Code	82247	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Amber pediatric microtainer tube
Minimum Amount	1 mL serum
Other Specimen Requirements	

Reference Ranges

Pediatric	Premature	Full Term
1 - 24 hr.	1-8 mg/dl	2-6 mg/dl
1 - 48 hr.	6-12	6-10S
3 - 5 d.	10-14	4-8
6 - 29 d. Levels gradually decrease to adult levels, usually by day 10. Breastfed babies may take longer to reach adult levels than bottle-fed babies.		

Transport to Life Laboratories

Shipping Instructions

Critical Values

Pediatric	
0 d. - 1 d.	>10 mg/dL
2 d. -6 d.	>15

Blood Culture, Acid-Fast Bacillus (AFB)

Ordering Mnemonic	AFBBC		
CPT Code	87116, plus others as indicated, at additional cost	Department	Reference Lab
Testing Frequency	Contact Lab	Turn Around Time	Contact Lab

Collection	
Specimen	Blood
Specimen Container	Yellow SPS Tube
Minimum Amount	
Other Specimen Requirements	Draw in morning so it can be sent out same day; Do not use Yellow ACD tubes.

Reference Ranges
No growth of Acid-Fast Bacilli (AFB)

Transport to Life Laboratories
Shipping Instructions

Critical Values
Positive culture

Blood Culture (Fungal), Constant Monitoring (Automated)

Test Includes: Routine Blood cultures held for 30 days to r/o suspected fungal isolates

Ordering Mnemonic	BC (note request for fungal culture)		
CPT Code	87103	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	30 days

Collection

Specimen	Blood
Specimen Container	Bactec vials
Minimum Amount	Blood in special enrichment broth, aerobic & anaerobic
Other Specimen Requirements	Blood culture collection vials available from the Microbiology department; 1 test order includes set (aerobic & anaerobic) or 1 pediatric vial. Must Specify collection site & collection times on vials.

Reference Ranges

No growth

Transport to Life Laboratories

Shipping Instructions Room Temp

Critical Values

Positive culture

Blood Culture (Routine, Bacterial), Constant Monitoring (Automated)

Test Includes: 2 Vial Set Includes: Aerobic/Anaerobic Culture, Identification & Susceptibilities

Ordering Mnemonic	BC		
CPT Code	87040	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	5 days

Collection

Specimen	Blood
Specimen Container	Bactec vials
Minimum Amount	Blood in special enrichment broth, aerobic & anaerobic
Other Specimen Requirements	Blood culture collection vials available from the Microbiology department; 1 test order includes set (aerobic & anaerobic) or 1 pediatric vial. Must Specify collection site & collection times on vials.

Reference Ranges

No growth

Transport to Life Laboratories

Shipping Instructions Room Temp

Critical Values

Positive culture

Blood Group & Rh

Test Includes: ABO, Rh(D)

Ordering Mnemonic	PTTYPE		
CPT Code	86900, 86901	Department	Blood Bank
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Whole Blood
Specimen Container	Pink - top tube with EDTA as anticoagulant
Minimum Amount	1 mL Plasma
Other Specimen Requirements	Do NOT separate plasma from red cells

Transport to Life Laboratories

Shipping Instructions	Ambient or Refrigerated
------------------------------	-------------------------

Body Fluid Culture, Sterile Site, Bacterial

Test Includes: Culture, gram stain, identification & susceptibilities

Ordering Mnemonic	BFC		
CPT Code	87075, 87205	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	3 days

Collection

Specimen	Sterile Body Fluid
Specimen Container	Sterile plastic container
Minimum Amount	Body fluid specimen
Other Specimen Requirements	Must identify source/body site (Fluids from Sterile body sites only, other drainage fluids see wound type cultures).

Reference Ranges

No growth

Transport to Life Laboratories

Shipping Instructions Room Temp

Bone Culture, Bacterial

Test Includes: Aerobic & Anaerobic cultures, gram stain, identification & susceptibilities

Ordering Mnemonic BONECULT

CPT Code 87070, 87075, 87205

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 5-7 days

Collection

Specimen Surgical Bone fragment

Specimen Container Sterile plastic container

Minimum Amount Bone Biopsy

Other Specimen Requirements Add sterile saline to keep moist; **Must identify source/body site.**

Reference Ranges

No growth

Transport to Life Laboratories

Shipping Instructions Room Temp. Ship STAT for processing.

Bronchial Culture, Bacterial

Test Includes: Culture, gram stain, identification of pathogens & susceptibilities

Ordering Mnemonic **BRONC**

CPT Code 87070, 87205

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 3 days

Collection

Specimen Bronchial wash, lavage or brush

Specimen Container Sterile plastic container

Minimum Amount >1 mL washings or lavage, brush sample in 2 mL saline

Other Specimen Requirements **Must identify source/body site.**

Reference Ranges

No pathogens noted

Transport to Life Laboratories

Shipping Instructions Room Temp

C- Reactive Protein (CRP)

Ordering Mnemonic	CRP		
CPT Code	86140	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Serum should be separated from cells within 2 hours of venipuncture.

Reference Ranges	
Adult	<0.5 mg/dl

Transport to Life Laboratories	
Shipping Instructions	

C-Peptide

Ordering Mnemonic	CPEP		
CPT Code	84681	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	0.8-3.9 ng/mL
--------------	---------------

Transport to Life Laboratories

Shipping Instructions

C-Reactive Protein, High Sensitivity

Ordering Mnemonic	CRPHS		
CPT Code	86141	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.5 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges		
Adult	Low	<1.0 mg/L
	Average	1.0 - 3.0 mg/L
	High	>3.0 mg/L

Transport to Life Laboratories
Shipping Instructions

C3, Serum

Ordering Mnemonic	C3		
CPT Code	86160	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Serum should be separated from cells within 2 hours of venipuncture.

Reference Ranges	
Adult	88-201 mg/dl

Transport to Life Laboratories	
Shipping Instructions	

C4, Serum

Ordering Mnemonic	C4		
CPT Code	86160	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Serum should be separated from cells within 2 hours of venipuncture.

Reference Ranges

Adult	16-47 mg/dl
--------------	-------------

Transport to Life Laboratories

Shipping Instructions

CA 125

Ordering Mnemonic CA125M**CPT Code** 86304**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day**Collection****Specimen** Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Serum should be separated from cells within 2 hours of venipuncture.**Reference Ranges****Adult** <35 U/mL**Transport to Life Laboratories****Shipping Instructions**

Calcium

Ordering Mnemonic	CA		
CPT Code	82310	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Serum should be separated from cells within 2 hours of venipuncture.

Reference Ranges			
Adult	8.5-10.5 mg/dL	Pediatric	
		Age	
		0 d. - 6 d.	7.2 - 12 mg/dL
		6 d. - 2 yr.	9 - 11

Transport to Life Laboratories
Shipping Instructions

Critical Values			
Adult	<6 & >13 mg/dL	Pediatric	
		Age:	
		0 d. - 6 d.	<7 & >12.5 mg/dL
		6 d. - 2 yr.	<6 & >13

Calcium, Ionized (Inpatients only)

Ordering Mnemonic **CALION**
CPT Code 82330

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Whole Blood

Specimen Container Green top Lithium or Sodium Heparin tube

Minimum Amount 1 mL

Other Specimen Requirements

Reference Ranges

Adult 4.5-5.3 mg/dL

Pediatric

0D-1M

3.9-6.0 mg/dL

Transport to Life Laboratories

Shipping Instructions

Critical Values

All Ages <3.3 mg/dL & >6.2 mg/dL

Calcium, Ionized, (Outpatient)

Ordering Mnemonic CAI**CPT Code** 82330**Department**

Reference Lab

Testing Frequency Contact Lab**Turn Around Time**

Contact Lab

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL**Other Specimen Requirements** Centrifuge and send unopened Gold-top serum separator tube (SST) with vacuum intact. It is critical that vacuum not be disrupted.

Reference Ranges

Contact Lab

Transport to Life Laboratories

Shipping Instructions

Calcium, Urine

Ordering Mnemonic UCAR**CPT Code** 82340**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Urine**Specimen Container** Clean, dry urine container**Minimum Amount** 10 mL random urine**Other Specimen
Requirements**

Reference Ranges

No reference ranges have been established.

Transport to Life Laboratories

Shipping Instructions

Calcium, Urine 24 - Hour

Ordering Mnemonic **UCAL24**

CPT Code 82340 **Department** Chemistry

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Urine

Specimen Container 24 Hour urine Container

Minimum Amount 10 mL aliquot of urine

Other Specimen Requirements Note 24 hour urine total volume

Reference Ranges

Adult 50-400 mg/24hr

Transport to Life Laboratories

Shipping Instructions

Carbamazepine (Tegretol)

Ordering Mnemonic	CARB		
CPT Code	80156	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Plain red-top tube or serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Recommended draw time for trough level is just before next dose.

Reference Ranges

Adult	8.0-12.0 mg/L
--------------	---------------

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	>12 mg/L
--------------	----------

Carbon Dioxide, CO₂

Ordering Mnemonic	CO₂		
CPT Code	82374	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	21.0-32.0 mmol/L
--------------	------------------

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	<15 mmol/L >40 mmol/L
--------------	--------------------------

Cardiolipin Ab w/reflex IgG, M

Test Includes: Reflexes IgG and IgM if positive

Ordering Mnemonic ACA

CPT Code 86147 x 2

Department Immunology

Testing Frequency 1 day/week

Turn Around Time 3 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult Negative

Transport to Life Laboratories

Shipping Instructions

Catheter Tip Culture, Bacterial

Test Includes: Culture, identification & susceptibilities

Ordering Mnemonic CTIPCULT

CPT Code 97070

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 3 days

Collection

Specimen Venous catheter tip

Specimen Container Sterile plastic container

Minimum Amount Distal Tip of intravenous catheter

Other Specimen Requirements Distal tip of intravenous catheter submitted; Note venous catheter type.

Reference Ranges

No Growth or No significant growth

Transport to Life Laboratories

Shipping Instructions Room Temp

CBC with Differential & Platelet

Test Includes: WBC, RBC, Hemoglobin, Hematocrit, MCV, MCH, MCHC, RDW, Platelet count, MPV, Automated differential

Ordering Mnemonic CBCD

CPT Code 85025

Department Hematology

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Whole Blood

Specimen Container Lavender top tube with EDTA as anticoagulant

Minimum Amount 1-5 mL whole blood

**Other Specimen
Requirements**

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Complete Blood Count (CBC), no Differential

Test Includes: WBC, RBC, Hemoglobin, Hematocrit, MCV, MCH, MCHC, RDW, Platelet count, MPV

Ordering Mnemonic	CBC		
CPT Code	85027	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Whole Blood
Specimen Container	Lavender top tube with EDTA as anticoagulant
Minimum Amount	1-5 mL whole blood
Other Specimen Requirements	

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	Refer to individual tests	Pediatric	Refer to individual tests
--------------	---------------------------	------------------	---------------------------

CCP Antibodies

Ordering Mnemonic	CCPAB		
CPT Code	86200	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

CEA

Ordering Mnemonic	CEA		
CPT Code	82378	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	0-5.0 ng/mL

Transport to Life Laboratories	
Shipping Instructions	

Celiac Serology

Test Includes: Total IgA, Gliadin IgG Ab, Gliadin IgA Ab, Endomysial Ab, Tissue Transglutaminase Ab

Ordering Mnemonic	CELIAC		
CPT Code	83516 (x3), 86255, 82784	Department	Immunology
Testing Frequency	1 days/week	Turn Around Time	3 days

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL
Other Specimen Requirements	

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions Room temp

Cell Count w/Diff, Fluid

Test Includes: WBC, RBC, differential (if enough cells are present)

Ordering Mnemonic BFCC

Copies

CPT Code	89051	Department	Hematology
-----------------	-------	-------------------	------------

Testing Frequency	7 days/week	Turn Around Time	1 day
--------------------------	-------------	-------------------------	-------

Collection

Specimen	Fluid
-----------------	-------

Specimen Container	Sterile plastic tube or lavender-top tube.
---------------------------	--

Minimum Amount	1 mL fluid.
-----------------------	-------------

**Other Specimen
Requirements**

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Chlamydia trachomatis Amplified Probe - DNA Detection

Ordering Mnemonic	CHLAS for swab. CHLAU for urine		
CPT Code	87490	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Swab or Urine
Specimen Container	Females: Endocervical swab in multi-Collect Specimen Collection Kit or urine in multi-Collect Specimen Collection Kit or a sterile plastic urine container. Males: Urethral swab submitted in multi-Collect Specimen Collection Kit or urine in multi-Collect Specimen Collection Kit or a sterile plastic urine container.
Minimum Amount	4 ml if urine
Other Specimen Requirements	If collecting a urine sample, collect the first 15-60mL only of voided urine (first part of stream); Urine may be submitted in multi-Collect Specimen Collection Kit (follow instructions on package) or in a Yellow top (no additive) Urinalysis Tube or in a sterile plastic urine container Clean catch urine is NOT appropriate for this testing.

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

Chlamydia Trachomatis/GC Amplified Probe - DNA Detection

Test Includes: *C. trachomatis* and *N. gonorrhoeae*

Ordering Mnemonic **CHLAS** and **GCS** for swab, **CHLAU** and **GCU** for urine samples

CPT Code **Department** Immunology

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Swab or Urine

Specimen Container **Females:** Endocervical swab in multi-Collect Specimen Collection Kit or urine in multi-Collect Specimen Collection Kit or a sterile plastic urine container.
Males: Urethral swab submitted in multi-Collect Specimen Collection Kit or urine in multi-Collect Specimen Collection Kit or a sterile plastic urine container.

Minimum Amount 4 mL of urine

Other Specimen Requirements If collecting a urine sample, collect the first 15-60mL only of voided urine (first part of stream);
Urine may be submitted in multi-Collect Specimen Collection Kit (follow instructions on package) or in a Yellow top (no additive) Urinalysis Tube or in a sterile plastic urine container
Clean catch urine is NOT appropriate for this testing.

Reference Ranges

Adult Negative

Transport to Life Laboratories

Shipping Instructions

Chloride

Ordering Mnemonic	CL		
CPT Code	82435	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges			
Adult	96-110 mmol/L	Pediatric	
		0 d. - 12 yr.	95 - 108 mmol/L

Transport to Life Laboratories
Shipping Instructions

Chloride, Fluid

Ordering Mnemonic BFCL**CPT Code** 82438**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Body Fluid**Specimen Container** Sterile container**Minimum Amount** 1 mL fluid**Other Specimen Requirements** Identify source/body site

Reference Ranges

Adult No reference ranges have been established for body fluids.

Transport to Life Laboratories

Shipping Instructions

Chloride, Urine (Random)

Ordering Mnemonic UCLRAN

CPT Code 82436

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Urine

Specimen Container Sterile urine container

Minimum Amount 1 ml random urine

**Other Specimen
Requirements**

Reference Ranges

Adult No reference ranges have been established

Transport to Life Laboratories

Shipping Instructions

Chloride, Urine (24-Hour)

Ordering Mnemonic	UCL24		
CPT Code	82436	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Urine
Specimen Container	Urine container for aliquot of 24 hour urine. Collect urine without preservative.
Minimum Amount	10 mL aliquot of urine
Other Specimen Requirements	Note 24 hour urine total volume

Reference Ranges	
Adult	75-200 mmol/24 Hour

Transport to Life Laboratories	
Shipping Instructions	

Cholesterol, Fluid

Ordering Mnemonic BFCHOL**CPT Code** 84311**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Sterile container**Specimen Container** Body Fluid**Minimum Amount** 1 mL fluid**Other Specimen Requirements** Identify source/body site

Reference Ranges

Adult No reference ranges have been established for body fluids

Transport to Life Laboratories

Shipping Instructions

Cholesterol, Total

Ordering Mnemonic CHOL**CPT Code** 82465**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	<200	optimal
	200-239	borderline high
	>240	high

Transport to Life Laboratories

Shipping Instructions

CK Isoenzymes (CKMB w/index)

Test Includes: CK, CKMB, CKMB Index

Ordering Mnemonic	CKMB		
CPT Code	82553 & 82550	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges
Refer to individual tests

Transport to Life Laboratories
Shipping Instructions

Critical Values			
Adult	CK	22 - 269 U/L	
	CKMB	0.5 - 3.6 ng/mL	
	CKMB Index	0 - 5 RI	

CK, Total

Ordering Mnemonic	CK		
CPT Code	82550	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	22-269 U/L
--------------	------------

Transport to Life Laboratories

Shipping Instructions

Clostridioides difficile (CDIF) Toxin, A/B Assay Panel

Test Includes: Panel includes CDIF EIA Toxin A/B and GDH (*C.difficile*) antigen, with reflex to CDIF PCR for all indeterminate EIA samples.

Ordering Mnemonic	CDIFF		
CPT Code	87324, 87449, reflex 87493 if appropriate	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Stool (Note: formed samples are not acceptable for testing)
Specimen Container	Sterile plastic container
Minimum Amount	5g random stool specimen
Other Specimen Requirements	<p>Stool specimens are only stable for 1 hour at room temperature or 24 hours if refrigerated.</p> <p>Specimens on hospital inpatients will be rejected after the third day of admission.</p> <p>Specimen will be rejected if testing has been performed within the last 7 days.</p>

Reference Ranges

Negative for Toxigenic *C. difficile*

Transport to Life Laboratories

Shipping Instructions Refrigerated

Critical Values

Positive

Cocaine, Urine

Ordering Mnemonic UCOC**CPT Code** 80307**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Urine**Specimen Container** 10 mL Urine, no additives**Minimum Amount** 10 mL urine**Other Specimen
Requirements**

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Complement C3, Serum

Ordering Mnemonic C3**CPT Code** 86160**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 0.3 mL Serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 88-201 mg/dl

Transport to Life Laboratories

Shipping Instructions

Complement C4, Serum

Ordering Mnemonic C4**CPT Code** 86160**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 0.3 mL Serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 16-47 mg/dl

Transport to Life Laboratories

Shipping Instructions

Comprehensive Metabolic Chemistry Panel

Test Includes: Glucose, BUN, Creatinine, eGFR, Sodium, Potassium, Chloride, CO₂, Anion Gap, Calcium, Total protein, Albumin, Total Bilirubin, AST, ALT, Alk phos

Ordering Mnemonic	CMP		
CPT Code	80053	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges
Refer to individual tests

Transport to Life Laboratories
Shipping Instructions

Cord Blood Workup

Test Includes: DAT (poly) & ABO/Rh (D) Type

Ordering Mnemonic CORD

CPT Code

DAT: 86880
ABO/Rh: 86900,
86901

Department

Blood Bank

Testing Frequency

7 days/week

Turn Around Time

1 day

Collection

Specimen Whole Blood

Specimen Container Pink-top or Lavender top tube with EDTA as anticoagulant

Minimum Amount 1 mL

Other Specimen Requirements Do NOT separate plasma from red cells

Transport to Life Laboratories

Shipping Instructions Ambient or Refrigerated

Cortisol (AM)

Ordering Mnemonic	CORT		
CPT Code	82533	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)* note time drawn
Minimum Amount	1 mL serum
Other Specimen Requirements	Separate cells ASAP. Note time drawn

Reference Ranges

Adult	8 am: 5-23.0 ug/dl
--------------	--------------------

Transport to Life Laboratories

Shipping Instructions

Cortisol (PM)

Ordering Mnemonic CORT**CPT Code** 82533**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)* note time drawn**Minimum Amount** 1 mL serum**Other Specimen Requirements** Separate cells ASAP. Note time drawn

Reference Ranges

Adult 4 pm: 3-16.0 ug/dl
8 pm: <5.0 ug/dl

Transport to Life Laboratories

Shipping Instructions

Cortisol Stimulation

Test Includes: Cortisol (baseline and 30 or 60 minute post dose, depending on dosage of Cortrosyn given)

Ordering Mnemonic	ACTHLOW or ACTHHIGH		
CPT Code	82533 x2	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	2 Serum specimens labeled with time intervals drawn in Gold-top serum separator tube (SST).
Minimum Amount	0.5 mL
Other Specimen Requirements	Draw a baseline specimen. Administer Cortrosyn (Cosyntropin) by IM or IV. Draw additional specimens at 30 (low dose test) or 60 (high dose test) minutes after Cortrosyn (Cosyntropin) administration. Separate serum from cells as soon as possible. Mark all tubes with time and date drawn. NOTE: Cortrosyn (Cosyntropin) is not supplied by the laboratory.

Reference Ranges	
Adult	High dose test: Normal response at 60 minutes: Increase from baseline ≥ 20 ug/dL Low Dose Test: Normal response at 30 minutes: Increase from baseline ≥ 18 ug/dL

Transport to Life Laboratories	
Shipping Instructions	

Cortisol, Total, Serum

Ordering Mnemonic	CORT		
CPT Code	82533	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Separate cells ASAP

Reference Ranges

Adult	8 am: 5-23.0 ug/dl 4 pm: 3-16.0 ug/dl 8 pm: <5.0 ug/dl
--------------	--

Transport to Life Laboratories

Shipping Instructions

COVID-19

Ordering Mnemonic **Varies seasonally**

CPT Code		Department	Varies
-----------------	--	-------------------	--------

Testing Frequency	7 days/week	Turn Around Time	1 day
--------------------------	-------------	-------------------------	-------

Collection

Specimen	Contact lab for latest test code and collection information
-----------------	---

Specimen Container

Minimum Amount

Other Specimen Requirements

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Creatinine

Ordering Mnemonic	CREAT		
CPT Code	82565	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges			
Adult		Pediatric	
		Age:	
Male:	0.7 - 1.3 mg/dl	0 d. - 4 yr.	0.4 - 0.7 mg/dl
Female:	0.5 - 1.1	4 yr. - 13 yr	0.5 - 1.0

Transport to Life Laboratories
Shipping Instructions

Critical Values	
Adult	>12 mg/dL

Creatinine Clearance

Test Includes: Serum Creatinine, 24 hour Urine Creatinine, Creatinine Clearance

Ordering Mnemonic CRCL

CPT Code 82575

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Urine & Serum

Specimen Container Urine container for aliquot of 24 hour urine & Gold-top serum separator tube (SST)

Minimum Amount 10 mL aliquot of well mixed 24 hour urine and 1 mL serum.

Other Specimen Requirements Note urine total volume

Reference Ranges

Adult 100-135 mL/min

Transport to Life Laboratories

Shipping Instructions

Creatinine, Fluid

Ordering Mnemonic	BFCRE		
CPT Code	82570	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Body fluid
Specimen Container	Sterile container
Minimum Amount	1 mL fluid
Other Specimen Requirements	Identify body source/site

Reference Ranges

Adult	No reference ranges have been established for body fluids
--------------	---

Transport to Life Laboratories

Shipping Instructions

Creatinine, Urine 24-Hour

Ordering Mnemonic	UCREA24		
CPT Code	82570	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Urine
Specimen Container	Urine container for aliquot of 24 hour urine
Minimum Amount	10 mL aliquot of urine
Other Specimen Requirements	10 mL aliquot of well-mixed 24 hour urine with NO preservative. Note 24 hour urine total volume.

Reference Ranges

Adult	800-2000 mg/24 hour
-------	---------------------

Transport to Life Laboratories

Shipping Instructions

Creatinine, Urine Random

Ordering Mnemonic UCREATR**CPT Code** 82570**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Urine**Specimen Container** Sterile Urine Container**Minimum Amount** 10 mL Urine**Other Specimen
Requirements**

Reference Ranges

No reference range

Transport to Life Laboratories

Shipping Instructions

Crossmatch, AHG (full)

Ordering Mnemonic XMIGG

CPT Code 86922

Department Blood Bank

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Plasma

Specimen Container Pink - top tube with EDTA as anticoagulant

Minimum Amount 1-6 mL

Other Specimen Requirements Do NOT separate

Transport to Life Laboratories

Shipping Instructions

Crossmatch, Immediate spin

Ordering Mnemonic	XMIS		
CPT Code	86920	Department	Blood Bank
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Plasma
Specimen Container	Pink - top tube with EDTA as anticoagulant
Minimum Amount	1-6 mL
Other Specimen Requirements	Do NOT separate

Transport to Life Laboratories

Shipping Instructions

Cryptosporidium Antigen Rapid EIA, Stool

Test Includes: Rapid test for Cryptosporidium antigen

Ordering Mnemonic CRYW

CPT Code 87328

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Stool

Specimen Container Para-pak collection set or Sterile plastic container

Minimum Amount Para-pak O&P collection set or 0.5g fresh unpreserved stool

Other Specimen Requirements Ova and Parasite collection vials (pink & gray top vials) containing ZN-PVA and 10% Formalin preservative. Alternate Specimens is Fresh unpreserved stool refrigerated less than 48 hours old or frozen.

Reference Ranges

Negative for Cryptosporidium antigen

Transport to Life Laboratories

Shipping Instructions **Preserved:** Room Temp
Unpreserved: Refrigerate

Crystal Id, Fluid

Ordering Mnemonic BFCRY**CPT Code** 89060**Department** Hematology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Synovial or Other Body Fluid**Specimen Container** Lavender-top tube with EDTA as anticoagulant, or clean, dry container**Minimum Amount** 2 mL Body Fluid**Other Specimen Requirements**

Reference Ranges

None seen

Transport to Life Laboratories

Shipping Instructions

CSF Culture

Test Includes: Bacterial culture, gram stain, identification & susceptibilities

Ordering Mnemonic CSFC

CPT Code 87070, 87205 **Department** Microbiology

Testing Frequency 7 days/week **Turn Around Time** 5 days

Collection

Specimen	CSF
Specimen Container	Sterile plastic tube
Minimum Amount	1 mL CSF
Other Specimen Requirements	CSF specimen must be aspirated aseptically from the patient and promptly injected into a sterile plastic tube; Transport to lab STAT. Ideally use tube #2 if collected in a series.

Reference Ranges

No growth

Transport to Life Laboratories

Shipping Instructions Room Temp

Critical Values

Positive smear/culture

DAT, Direct Antiglobulin Test

Ordering Mnemonic	DAT		
CPT Code	86880	Department	Blood Bank
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Whole Blood
Specimen Container	Pink - top tube with EDTA as anticoagulant
Minimum Amount	1 mL Plasma
Other Specimen Requirements	Do NOT separate plasma from red cells

Transport to Life Laboratories

Shipping Instructions	Ambient or Refrigerated
------------------------------	-------------------------

D-Dimer

Ordering Mnemonic DDIMER**CPT Code** 85379**Department** Hematology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Plasma**Specimen Container** Blue-top tube with Sodium Citrate as anticoagulant**Minimum Amount** 1 mL plasma**Other Specimen Requirements** Sample must be received in lab within 4 hours of draw

Reference Ranges

Adult <230 ng/mL

Transport to Life Laboratories

Shipping Instructions

Dehydroepiandrosterone Sulfate (DHEAS)

Ordering Mnemonic	DHEAS		
CPT Code	82627	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	Age	Male	Female
	17-19	97.8-667.5 ug/dL	72.3-550.9 ug/dL
	20-24	142.6-391.0	94.8-370.7
	25-34	182.7-533.4	53.8-334.6
	35-44	84.9-476.1	68.9-301.8
	45-54	71.6-441.2	26-209
	55-64 (females >55)	33.8-228.8	30.5-122.8
	65-74	25.0-131.2	
	>74	32.8-102.2	

Transport to Life Laboratories

Shipping Instructions

Depakene (Valproic Acid) Total

Ordering Mnemonic	VALP		
CPT Code	80164	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	

Reference Ranges

Adult	50.0-100.0 mg/L
--------------	-----------------

Transport to Life Laboratories

Shipping Instructions	
------------------------------	--

Critical Values

Adult	>130 mg/L
--------------	-----------

Dialysate (Peritoneal) Culture, Bacterial

Test Includes: Culture, gram stain, identification & susceptibilities

Ordering Mnemonic BFC

CPT Code 87070, 87205

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 5 days

Collection

Specimen Peritoneal Dialysate fluid

Specimen Container 2 sterile plain red vacuatainer tubes

Minimum Amount Dialysis fluid specimen

**Other Specimen
Requirements**

Reference Ranges

No growth

Transport to Life Laboratories

Shipping Instructions Room Temp

Digoxin (Lanoxin)

Ordering Mnemonic	DIG		
CPT Code	80162	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Recommended draw time, 8 hours after last dose.

Reference Ranges	
Adult	0.5-2.0 ng/ml

Transport to Life Laboratories	
Shipping Instructions	

Critical Values	
Adult	>2 ng/mL

Dilantin (Phenytoin) - Total

Ordering Mnemonic	DIL		
CPT Code	80185	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Recommended draw time, at least 75 minutes after last dose.

Reference Ranges

Adult	10.0-20.0 mg/L
--------------	----------------

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	>25 mg/L
--------------	----------

Ear Culture, Bacterial

Test Includes: Culture, gram stain, identification of pathogens & susceptibilities

Ordering Mnemonic EARC

CPT Code 87070, 87205

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 3 days

Collection

Specimen Ear canal, non-wound

Specimen Container Routine culture swab in transport media

Minimum Amount Swab from identified source

Other Specimen Requirements **Must Identify source/body site.**

Reference Ranges

No Pathogens noted

Transport to Life Laboratories

Shipping Instructions Room Temp

ENA Ab (Sm/RNP)

Test Includes: Anti-Sm and Anti-RNP

Ordering Mnemonic ENA

CPT Code 86235 (x 2) **Department** Immunology

Testing Frequency 1 day/week **Turn Around Time** 3 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Endomysial Antibody

Ordering Mnemonic	ENDOMYSIAL		
CPT Code	86255	Department	Immunology
Testing Frequency	Mon - Fri	Turn Around Time	2 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Environmental Culture

Test Includes: Culture, descriptive identification

Ordering Mnemonic ENVC

CPT Code 87070

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 3 days

Collection

Specimen Environmental surface

Specimen Container Routine culture swab in transport media

Minimum Amount Swab from identified source

Other Specimen Requirements For infection control purposes only, for post-disinfection assessment.

Reference Ranges

No growth

Transport to Life Laboratories

Shipping Instructions Room Temp

Eosinophil Smear, Sputum-Bronch

Ordering Mnemonic	EOSS		
CPT Code	89190	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Nasal, Sputum or Bronchial Smear
Specimen Container	Glass slide placed in slide holder
Minimum Amount	1 slide
Other Specimen Requirements	Air dried smear

Reference Ranges	
Adult	None seen

Transport to Life Laboratories	
Shipping Instructions	

Eosinophils, Absolute

Ordering Mnemonic	EOS		
CPT Code	85999	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Whole Blood
Specimen Container	Lavender-top tube with EDTA as anticoagulant
Minimum Amount	1-5 mL whole blood
Other Specimen Requirements	

Reference Ranges

Adult	0 - 0.5 X10 ³ /uL
--------------	------------------------------

Transport to Life Laboratories

Shipping Instructions	
------------------------------	--

Eosinophils, Urine

Test Includes: Urine wbc count and urine eosinophil count

Ordering Mnemonic EOSU

CPT Code 89050

Department Hematology

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Urine, random

Specimen Container Urine cup

Minimum Amount 10 mL urine

Other Specimen Requirements Eosinophil count will not be performed if wbc less than 10.

Reference Ranges

Adult No Eos seen

Transport to Life Laboratories

Shipping Instructions

Epstein-Barr Ab panel

Test Includes: EBV Capsid Antigen, IgG and IgM Antibodies, EBV Nuclear antigen, EBV Early antigen

Ordering Mnemonic

CPT Code	86664,86665 (x2)	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

ESR (Sedimentation Rate)

Ordering Mnemonic ESR
CPT Code 85651

Department

Hematology

Testing Frequency 7 days/week

Turn Around Time

1 day

Collection
Specimen Whole Blood

Specimen Container Lavender top with EDTA

Minimum Amount 1-5 mL whole blood

**Other Specimen
Requirements**
Reference Ranges
Adult
Males 13-50 yr. 0-15 mm/Hr
 >50 yr. 0-20

Females 13-50 yr. 0-20 mm/Hr
 >50 yr. 0-30

Pediatric
Age

0 d. - 12yr. 0 - 10 mm/Hr

Transport to Life Laboratories
Shipping Instructions

Estradiol, E2

Ordering Mnemonic	ESTD		
CPT Code	82670	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	Menstruating females (by day in cycle relative to LH peak)	
	Follicular phase (-12)	19-83 pg/ml
	(-4)	64-183
	Midcycle (-1)	150-528
	Luteal phase (+2)	58 – 157
	(+6)	60-211
	(+12)	55-150
	Post-menopausal Females (untreated)	ND – 31
	Male	<11-52.5 pg/ml

Transport to Life Laboratories

Shipping Instructions

Ethyl Alcohol - Serum

Ordering Mnemonic	ETOH		
CPT Code	82055	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Clean collection site with non-alcohol swab Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	0-10 mg/dl
--------------	------------

Transport to Life Laboratories

Shipping Instructions

Ethyl Alcohol - Urine

Ordering Mnemonic UETOH

CPT Code 82055

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Urine

Specimen Container 10 mL Urine, no additives

Minimum Amount 10 mL urine

**Other Specimen
Requirements**

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Eye Culture, Bacterial

Test Includes: Culture, gram stain, identification & susceptibilities

Ordering Mnemonic EYECULT

CPT Code 87070, 87205

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 3 days

Collection

Specimen Eye source

Specimen Container Routine culture swab in transport media

Minimum Amount Swab from identified source

Other Specimen Requirements **Must Identify source/body site.**

Reference Ranges

No growth

Transport to Life Laboratories

Shipping Instructions Room Temp

Critical Values

Isolation of Pseudomonas aeruginosa

Fecal Lactoferrin

Test Includes: *Rapid test for the detection of fecal lactoferrin*

Ordering Mnemonic	FECLACTO		
CPT Code	83630	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Stool
Specimen Container	Sterile plastic container
Minimum Amount	1 gram of stool submitted in a leak-proof container, refrigerated 2-8° C
Other Specimen Requirements	Stable for up to 2 weeks refrigerated or at room temperature.

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions Refrigerated or Room Temp

Fecal Occult Blood, Stool, Diagnostic (Guaiac Method)

Test Includes: 1 sample to detect diagnostic presence of blood

Ordering Mnemonic OCBLD

CPT Code 82272

Department

Microbiology

Testing Frequency 7 days/week

Turn Around Time

1 day

Collection

Specimen Stool specimen

Specimen Container Sterile plastic container

Minimum Amount Stool specimen

Other Specimen Requirements

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions Room Temp

Fecal Occult Blood, Stool, Screening (Guaiac Method)

Test Includes: 1-3 patient collected cards for colorectal screening

Ordering Mnemonic OBSPEC

CPT Code 82270

Department

Microbiology

Testing Frequency 7 days/week

Turn Around Time

1 day

Collection

Specimen Stool

Specimen Container Hemoccult-SENSA cards

Minimum Amount Hemoccult-SENSA patient screening kit

Other Specimen Requirements SENSA patient collection cards are NOT distributed by our Lab, but can be tested if submitted. The Microbiology department provides Hemoccult-ICT cards which is a more sensitive method for colorectal screening, with no dietary restrictions

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions Room Temp

Fecal Occult Blood, Stool, Screening FOBT (Immunochemical)

Test Includes: 1-3 patient collected cards for colorectal screening

Ordering Mnemonic **FOBT**

CPT Code G0328 **Department** Microbiology

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Stool

Specimen Container Hemoccult-ICT cards

Minimum Amount Stool specimen OR Hemoccult-ICT patient screening kit

Other Specimen Requirements Patient collection kits (contain 3 cards) available from Microbiology

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions Room Temp

Fentanyl (Urine)

Ordering Mnemonic UFENT**CPT Code** 80307**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Urine**Specimen Container** Urine container**Minimum Amount** 10 mL**Other Specimen
Requirements**

Reference Ranges

None Detected

Transport to Life Laboratories

Shipping Instructions

Ferritin

Ordering Mnemonic	FERR		
CPT Code	82728	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	Male:	26 - 388 ng/mL
	Female:	8 - 252

Transport to Life Laboratories

Shipping Instructions

Fetal Fibronectin

Ordering Mnemonic **FFN****CPT Code** 82731**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Cervical fluid**Specimen Container** Swab**Minimum Amount** 1 swab**Other Specimen
Requirements**

Reference Ranges

Adult Negative

Transport to Life Laboratories

Shipping Instructions

Fibrinogen

Ordering Mnemonic	FIB		
CPT Code	85384	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Plasma
Specimen Container	Blue-top tube with Sodium Citrate as anticoagulant
Minimum Amount	1 mL plasma
Other Specimen Requirements	Sample must be received in lab within 4 hours of draw

Reference Ranges
211 - 514 mg/dL

Transport to Life Laboratories
Shipping Instructions

Critical Values			
Adult	<100 mg/dL	Pediatric	
		0 d. - 1mo.,1d.	<150 mg/dL

Folate, Serum

Ordering Mnemonic	FOL		
CPT Code	82746	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	2.8 - 17.0 ng/ml
--------------	------------------

Transport to Life Laboratories

Shipping Instructions

Follicle Stimulating Hormone (FSH)

Ordering Mnemonic	FSH		
CPT Code	83001	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges		
Adult	Females normally menstruating:	
	Follicular phase	1.1 - 9.6 mIU/ml
	Midcycle peak	2.3 - 20.9
	Luteal phase	0.8 - 7.5
	Pregnant	0.0 - 0.9
	Postmenopausal	34.4 - 95.8
	Contraceptives	1.5 - 16.1
	Ovarian failure	11.5 - 91.1
	Males:	0.7 - 10.8 mIU/ml
Pediatric	1.2 - 7.8 mIU/ml	

Transport to Life Laboratories
Shipping Instructions

Fungal Smear, Direct

Test Includes: Direct smear to detect yeast & fungal elements (note: direct smear not for hair, nail, skin, these specimens require KOH prep)

Ordering Mnemonic	FSOS		
CPT Code	87206	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1- 3 days

Collection

Specimen	Multiple source types
Specimen Container	Sterile plastic container
Minimum Amount	0.5 mL fluid, swab from identified source
Other Specimen Requirements	Must Identify source/body site.

Reference Ranges

No fungal elements noted

Transport to Life Laboratories

Shipping Instructions Room Temp

Fungus Culture

Test Includes: Fungal culture, Identification yeast & mold (genital, diaper rash and mucosal sites screened for yeast only)

Ordering Mnemonic FUNGO

CPT Code 87101 or 87102

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 4 Weeks

Collection

Specimen Multiple source types

Specimen Container Sterile plastic container or Culture swab, dependent on source.

Minimum Amount 0.5 mL fluid, swab from identified source, or enough nail pieces or skin scrapings to cover head of thumb tack, few pieces of hair.

Other Specimen Requirements Scraping, fluid or swab from any body site. **Must identify source/body site.**
Please contact Micobiology department in advance for cases of suspected Coccidioides, Histoplasma capsulatum or Blastomyces dermatidides.

Reference Ranges

Negative for Fungus; For genital, mucosal or diaper rash sites: Negative for yeast

Transport to Life Laboratories

Shipping Instructions Room Temp

Garamycin (Gentamicin)

Ordering Mnemonic	GENR (Random), GENPK (Peak), GENTR (Trough)		
CPT Code	80170	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Recommended draw times: Trough - just before next dose Peak - 30 minutes after infusion

Reference Ranges

Adult	Trough: 0.5-2.0 mg/L Peak: 5.0-10.0 mg/L
--------------	---

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	Trough: >2.0 mg/L Peak: >25.0 mg/L
--------------	---

Gastrointestinal Panel PCR

Test Includes:

Bacterial Targets:

Campylobacter (jejuni, coli, upsaliensis)
 Pleisiomonas shigelloides
 Salmonella
 Yersinia enterocolitica
 Vibrio (parahaemolyticus, vulnificus, cholerae)

Viral Targets:

Adenovirus F40/41
 Astrovirus
 Norovirus GI/GII
 Rotavirus A
 Sapovirus (I,II,IV,V)

Diarrheagenic E.Coli/Shigella:

Enteraggregative E.coli (EAEC)
 Enteropathogenic E.coli (EPEC)
 Enterotoxigenic E.coli (ETEC)lt.st
 Shiga-like toxin-producing E.coli(STEC) stx1/
 stx2
 E.coli 0157
 Shigella/Enteroinvasive E.coli (EIEC)

Parasites:

Cyclospora cayetanensis
 Cryptosporidium
 Entamoeba histolytica
 Giardia lamblia

Ordering Mnemonic	GI PANEL		
CPT Code	87507	Department	Microbiology
Testing Frequency	Daily between 7am-1130pm	Turn Around Time	Within 12 hours

Collection	
Specimen	Stool
Specimen Container	Cary Blair transport media
Minimum Amount	Stool submitted to fill line in Cary Blair transport media
Other Specimen Requirements	For best stability, place raw stool in Cary Blair transport media. Raw stool must arrive in laboratory <2 hours from collection.

Reference Ranges
Targets not detected

Transport to Life Laboratories	
Shipping Instructions	Raw stool must be transported to the laboratory in <2 hours. Specimens in Cary Blair transport media are stable at room temperature or refrigerated for up to 4 days.

Critical Values
Detection of Salmonella, Shigella, Campylobacter, Shiga-like toxin producing E. coli (STEC), E. coli 0157, Yersinia

GC Amplified Probe - DNA Detection

Ordering Mnemonic	GCS for swab or GCU for urine samples		
CPT Code	87590	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Swab or Urine
Specimen Container	Females: Endocervical swab in multi-Collect Specimen Collection Kit or urine in multi-Collect Specimen Collection Kit or a sterile plastic urine container. Males: Urethral swab submitted in multi-Collect Specimen Collection Kit or urine in multi-Collect Specimen Collection Kit or a sterile plastic urine container.
Minimum Amount	4 ml if urine
Other Specimen Requirements	If collecting a urine sample, collect the first 15-60mL only of voided urine (first part of stream); Urine may be submitted in multi-Collect Specimen Collection Kit (follow instructions on package) or in a Yellow top (no additive) Urinalysis Tube or in a sterile plastic urine container Clean catch urine is NOT appropriate for this testing

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

GC/Chlamydia trachomatis Amplified Probe - DNA Detection

Ordering Mnemonic	GCS and CHLAS for swab, GCU and CHLAU for urine samples		
CPT Code	CHLAS/U-87490, GCS/U-87590	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Swab or Urine
Specimen Container	Females: Endocervical swab in multi-Collect Specimen Collection Kit or urine in multi-Collect Specimen Collection Kit or a sterile plastic urine container. Males: Urethral swab submitted in multi-Collect Specimen Collection Kit or urine in multi-Collect Specimen Collection Kit or a sterile plastic urine container.
Minimum Amount	4 ml if urine
Other Specimen Requirements	If collecting a urine sample, collect the first 15-60mL only of voided urine (first part of stream); Urine may be submitted in multi-Collect Specimen Collection Kit (follow instructions on package) or in a Yellow top (no additive) Urinalysis Tube or in a sterile plastic urine container Clean catch urine is NOT appropriate for this testing

Reference Ranges
Negative

Transport to Life Laboratories
Shipping Instructions

GC Culture Screen

Test Includes: Culture screen to identify presence of *Neisseria gonorrhoeae*, Beta-lactamase testing performed on positive samples and isolate sent to reference lab for susceptibility testing.

Ordering Mnemonic GCCULT

CPT Code 87081

Department

Microbiology

Testing Frequency 7 days/week

Turn Around Time

3 days

Collection

Specimen Genital sources

Specimen Container Routine culture swab in transport media

Minimum Amount Swab in transport media

Other Specimen Requirements **Must Identify source/body site.**

Reference Ranges

Negative for *Neisseria gonorrhoeae*

Transport to Life Laboratories

Shipping Instructions Room Temp

Genital Culture, Bacterial

Test Includes: Culture, identification of yeast, Beta Strep Group B, Neisseria gonorrhoeae, Listeria, Gardnerella vaginalis or other predominant potentially significant pathogens and susceptibility testing when appropriate.

Ordering Mnemonic **GENITAL**

CPT Code	87070	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	3 days

Collection

Specimen	Non-wound Genital sources
Specimen Container	Routine culture swab in transport media
Minimum Amount	Swab from identified source
Other Specimen Requirements	Culture swab in transport media; Must Identify source/body site.

Reference Ranges

No pathogens noted

Transport to Life Laboratories

Shipping Instructions Room Temp

GGT (Gammaglutamyl Transferase)

Ordering Mnemonic	GGT		
CPT Code	82977	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	7-64 U/L

Transport to Life Laboratories	
Shipping Instructions	

Giardia Antigen, Rapid EIA, Stool

Test Includes: Rapid test for Giardia antigen

Ordering Mnemonic	GIARD		
CPT Code	87329	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Stool
Specimen Container	Para-pak O&P collection set, containing PVA and formalin preservatives, Cary-Blair, C&S, Stuarts Transport Media or sterile plastic container.
Minimum Amount	Para-pak O&P collection set or 0.5g fresh unpreserved stool
Other Specimen Requirements	Formalin and SAF preserved specimens can be stored frozen ($\leq -20^{\circ}\text{C}$, refrigerated ($2-8^{\circ}\text{C}$) are stable for 2 months. Cary-Blair or C&S deluted samples can be stored refrigerated and tested within 2 weeks or frozen and tested within 2 months. Fresh unpreserved samples and samples in Stuarts Transport Media should be tested as soon as possible, as storage for these conditions have not been validated.

Reference Ranges

Negative for Giardia lamblia antigen

Transport to Life Laboratories

Shipping Instructions Room Temp

Glucose Challenge, 1-Hour (Gestational Diabetes Screen 1 Hour GTT)

Ordering Mnemonic	GLU1		
CPT Code	82950	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Plasma
Specimen Container	1 Grey top tube with Potassium Oxalate as anticoagulant, Sodium Fluoride as preservative.
Minimum Amount	1 mL plasma
Other Specimen Requirements	Fasting is not required. Collect 1 hour specimen. Adult gestational: 50 gm dose oral glucose

Reference Ranges	
Adult	<140 mg/dL

Transport to Life Laboratories	
Shipping Instructions	

Critical Values	
Adult	<40 mg/dL >400 mg/dL

Glucose Tolerance, 2-Hour (Non Pregnant)

Test Includes: Fasting and 2 hour glucoses

Ordering Mnemonic GTT

CPT Code 82950, 82952 x2

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Plasma

Specimen Container Grey top tube with Potassium Oxalate as anticoagulant, Sodium Fluoride as preservative.

Minimum Amount 1 mL plasma for EACH tolerance time interval

Other Specimen Requirements Collect fasting and 2 hour specimens. Label each specimen appropriately indicating time drawn.

Recommended dose for oral glucose tolerance test:

Adult non-gestational diabetes: 75 gm

Pediatric: 1.75 gm/kg of ideal body weight, maximum of 75 gm

Reference Ranges

Adult

Fasting	<100 mg/dL
120 minute	<140 mg/dL

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult

<40 mg/dL
>400 mg/dL

Glucose Tolerance, 3-Hour (Gestational)

Test Includes: Fasting and 1, 2 & 3 hour glucoses

Ordering Mnemonic GTTGEST

CPT Code 82951, 82952 x3

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Plasma

Specimen Container Grey top tube with Potassium Oxalate as anticoagulant, Sodium Fluoride as preservative.

Minimum Amount 1 mL plasma for EACH tolerance time interval

Other Specimen Requirements Collect fasting 1, 2 and 3 hour specimens. Label each specimen appropriately indicating time drawn.

Recommended dose for oral glucose tolerance test:

Adult gestational diabetes: 100 gm

Reference Ranges

Adult	Fasting	<95 mg/dL
	60 minute	<180 mg/dL
	120 minute	<155 mg/dL
	180 minute	<140 mg/dL

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	<40 mg/dL
	>400 mg/dL

Glucose, CSF

Ordering Mnemonic CSFGLU**CPT Code** 82945**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen cerebrospinal fluid (CSF)**Specimen Container** Sterile plastic tube or red-top tube (plain) with no additive**Minimum Amount** 1 mL (CSF)**Other Specimen
Requirements**

Reference Ranges

Adult 40-80 mg/dL

Transport to Life Laboratories

Shipping Instructions

Glucose, Fluid

Ordering Mnemonic BFGLU**CPT Code** 82945**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Fluid**Specimen Container** Sterile plastic tube or red-top tube (plain) with no additive**Minimum Amount** 1 mL fluid**Other Specimen Requirements** Specify source/body site

Reference Ranges

No reference ranges have been established for body fluids.

Transport to Life Laboratories

Shipping Instructions

Glucose, Plasma

Ordering Mnemonic	PGLU		
CPT Code	82947	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Plasma
Specimen Container	1 Grey top tube with Potassium Oxalate as anticoagulant, Sodium Fluoride as preservative
Minimum Amount	1 mL plasma
Other Specimen Requirements	

Reference Ranges	
Adult	Pediatric
70-100 mg/dL	0 d. - 6 d. 40 - 90 mg/dL 6 d. - 2 yr. 60 - 110 2 yr. - 12 yr. 70 - 110

Transport to Life Laboratories
Shipping Instructions

Critical Values	
Adult	Pediatric
<40 & >400 mg/dL	0 d. - 6 d. <40 & >100 mg/dL 6 d. - 2 yr. <50 & >130 2 yr. - 12 yr. <40 & >200

Glucose, Serum

Ordering Mnemonic	GLU		
CPT Code	82947	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Fasting patient Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Pediatric
70 - 100 mg/dL	0 d. - 6 d. 40 - 90 mg/dL 6 d. - 2 yr. 60 - 100 2 yr. - 12 yr. 70 - 100

Transport to Life Laboratories
Shipping Instructions

Critical Values	
Adult	Pediatric
<40 & >400 mg/dL	0 d. - 6 d. <40 & >130 mg/dL 6 d. - 2 yr. <40 & >140 2 yr. - 12 yr. <40 & >200

Glucose, Urine 24hr

Ordering Mnemonic UGLU24**CPT Code****Department**

Chemistry

Testing Frequency 7 days/week**Turn Around Time**

1 day

Collection

Specimen Urine**Specimen Container** Urine container for aliquot of 24 hour urine.**Minimum Amount** 10 mL aliquot from well-mixed 24 hour urine**Other Specimen Requirements** Note 24 hour total volume

Reference Ranges

Adult 0-250 mg/24hr

Transport to Life Laboratories

Shipping Instructions

Gram Stain

Test Includes: Direct Smear to detect bacteria, presence of polys (PMNs) and squamous epithelial cells

Ordering Mnemonic **GS**

CPT Code 87205

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Multiple source types

Specimen Container Routine culture swab in transport media or sterile plastic container.

Minimum Amount Swab from identified source.

Other Specimen Requirements **Must identify source/body site.**

Reference Ranges

Negative for Polys, Epithelial cells, No organisms noted

Transport to Life Laboratories

Shipping Instructions Room Temp

Group B Strep Screen, by PCR

Test Includes: Identification of Beta Streptococcus from Culture broth by PCR; Sensitivity testing performed if penicillin allergy noted on orders or upon provider request

Ordering Mnemonic	GRPBC		
CPT Code	87150, 87081, 87184 (if sensitivity required)	Department	Microbiology
Testing Frequency	Batched Daily	Turn Around Time	1-3 days

Collection	
Specimen	Combined Vaginal/Rectal sample
Specimen Container	Routine Bacterial Culture (dual-swab) transport
Minimum Amount	2 swabs in Transport
Other Specimen Requirements	Not acceptable: culture transports with gel media. Stable up to 6 days refrigerated, or 24 hours at room temperature.

Reference Ranges
Negative for Beta Strep group B

Transport to Life Laboratories
Shipping Instructions Stable up to 6 days Refrigerated, or 24 hours at room temperature.

H. pylori Breath Test

Ordering Mnemonic	BREATHID		
CPT Code	83013	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Breath sample kit
Specimen Container	Breath samples pre and post ingestion of a C-urea solution. One blue sample bag labeled "baseline" and one gray sample bag labeled "postdose". Kit available at main lab and patient service centers.
Minimum Amount	2 breath bags
Other Specimen Requirements	

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions Protect from direct sunlight and sharp objects.

Haptoglobin

Ordering Mnemonic HAPTOGLOBIN or HAPT

CPT Code 83010 **Department** Chemistry

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 16-200 mg/dl

Transport to Life Laboratories

Shipping Instructions

hCG, QL, Serum

Ordering Mnemonic	SPREG		
CPT Code	84703	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

hCG, QL, Urine

Ordering Mnemonic	HCGU		
CPT Code	81025	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Urine
Specimen Container	Sterile container or clean, dry container
Minimum Amount	1 mL urine
Other Specimen Requirements	First morning specimen

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

hCG, Quantitative Serum

Ordering Mnemonic	THCG		
CPT Code	84702	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges		
Adult	<u>Time after conception</u>	
	0.2-1.0 week	5-50 mIU/ml
	1-2 weeks	50-500
	2-3 weeks	100-5,000
	3-4 weeks	500-10,000
	4-5 weeks	1,000-50,000
	5-6 weeks	10,000-100,000
	6-8 weeks	15,000-200,000
	2-3 months	10,000-100,000
	2 nd trimester	1,000-94,000
	3 rd trimester	2,500-90,000
Non-pregnant females: 1- 3 mIU/ml		

Transport to Life Laboratories
Shipping Instructions

hCG, Tumor, Serum

Ordering Mnemonic HCGTM**CPT Code** 84702**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult <1 mIU/mL

Transport to Life Laboratories

Shipping Instructions

HDL Cholesterol

Ordering Mnemonic	HDL		
CPT Code	83718	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	>40 optimal

Transport to Life Laboratories	
Shipping Instructions	

Helicobacter Pylori IgG, Abs

Ordering Mnemonic	HPYL		
CPT Code	86677	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.5 mL
Other Specimen Requirements	

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Hematocrit

Ordering Mnemonic	HCT		
CPT Code	85014	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Whole Blood
Specimen Container	Lavender-top tube with EDTA as anticoagulant
Minimum Amount	1-5 mL Whole blood
Other Specimen Requirements	

Reference Ranges			
Adult	Male:	42-54%	Pediatric Age 0 - 1d. 45 - 60% 1 - 6d. 44 - 57 6d. - 1mo.,1d. 34 - 54 1mo.,1d. - 2yr. 33 - 38 2yr - 12yr. 34 - 39
	Female:	35-47	

Transport to Life Laboratories
Shipping Instructions

Critical Values			
Adult	<20% & >60%		Pediatric Age 0 - 1d. <40 & >65% 1 - 6d. <38 & >65 6d. - 1mo.,1d. <30 & >60 1mo.,1d. - 2yr. <24 & >60 2yr - 12yr.. <20 & >60

Hemoglobin

Ordering Mnemonic	HGB		
CPT Code	85018	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Whole Blood
Specimen Container	Lavender-top tube with EDTA as anticoagulant
Minimum Amount	1-5 mL Whole blood
Other Specimen Requirements	

Reference Ranges

Adult	Pediatric
Male: 13.5 - 17.5 g/dL	Age
Female: 11.5 - 16.0	0 - 1d. 15.5 - 21 g/dL
	1 - 6d. 15.4 - 20
	6d. - 1mo., 1d. 12 - 19
	1mo., 1d. - 2yr. 11 - 13
	2yr - 12yr. 11.7 - 13.7

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	Pediatric
<6.5 & >20 g/dL	Age
	0 - 1d. <13 & >22 g/dL
	1 - 6d. <12 & >22
	6d. - 1mo., 1d. <10 & >20
	1mo., 1d. - 2yr. <8 & >20
	2yr - 12yr. <6.5 & >20

Hemoglobin A1C

Ordering Mnemonic GLYHA1C**CPT Code** 83036**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Whole Blood**Specimen Container** Lavender-top tube with EDTA as anticoagulant**Minimum Amount** 1-5 mL Whole blood**Other Specimen
Requirements**

Reference Ranges

Adult <6.5%

Transport to Life Laboratories

Shipping Instructions

Hemoglobin & Hematocrit

Test Includes: Hemoglobin, Hematocrit

Ordering Mnemonic HH

CPT Code 85014, 85018

Department Hematology

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Whole blood

Specimen Container Lavender-top tube with EDTA as anticoagulant

Minimum Amount 1-5 mL whole blood

Other Specimen Requirements

Reference Ranges

Adult Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Critical Values

Refer to individual tests

Heparin Anti-Xa

Ordering Mnemonic ANTI XA**CPT Code** 85520**Department** Hematology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Whole blood**Specimen Container** Light Blue 3.2% Sodium Citrate Tube**Minimum Amount** 1 mL**Other Specimen
Requirements**

Reference Ranges

Adult 0.30-0.70 IU/ml

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult >1.50 IU/ml

Hepatitis A Antibody, IgM

Ordering Mnemonic	HEPAABM		
CPT Code	86709	Department	Chemistry
Testing Frequency	5 days/week	Turn Around Time	1-2 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

Hepatitis A Antibody, Total

Test Includes: Anti-Hepatitis A total (reflexes to Hepatitis A IgM if positive)

Ordering Mnemonic	HEPAABT		
CPT Code	86708	Department	Chemistry
Testing Frequency	5 days/week	Turn Around Time	1-2 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	

Hepatitis A, B & C Profile

Test Includes: Hepatitis A Total, Hepatitis B Surface antigen and antibody, Hepatitis B core antibody and Hepatitis C Virus antibody

Ordering Mnemonic	HEPABCP		
CPT Code	86708, 86709, 87340, 86704, 86803	Department	Chemistry
Testing Frequency	5 days/week	Turn Around Time	1-2 days

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Hepatitis A Profile

Test Includes: Anti-HAV IgM and Anti-Hepatitis A total (reflexes to Hepatitis A IgM if positive)

Ordering Mnemonic HAV

CPT Code 86708, 86709

Department Chemistry

Testing Frequency 5 days/week

Turn Around Time 1-2 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Hepatitis B Core Antibody, IgM

Ordering Mnemonic HEPBCIGM**CPT Code** 86705**Department** Chemistry**Testing Frequency** 5 days/week**Turn Around Time** 1-2 days

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Hepatitis B Core Antibody, Total

Ordering Mnemonic **HEPBCAB****CPT Code** 86704**Department** Chemistry**Testing Frequency** 5 days/week**Turn Around Time** 1-2 days

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Hepatitis B Immune Profile

Test Includes: Hepatitis B core antibody, Hepatitis B Surface antigen and antibody,

Ordering Mnemonic HEPBP

CPT Code 86704, 86706, 87340

Department Chemistry

Testing Frequency 5 days/week

Turn Around Time 1-2 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Hepatitis B Surface Antibody (HBsAb)

Ordering Mnemonic **HEPBSAB**

CPT Code 86706

Department Chemistry

Testing Frequency 5 days/week

Turn Around Time 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Hepatitis B Surface Antibody, Quantitative

Ordering Mnemonic HBSABQ**CPT Code** 86317**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult > 10.0 mIU/ml

Transport to Life Laboratories

Shipping Instructions

Hepatitis B Surface Antigen (HBsAg)

Test Includes: Hepatitis B Surface Antigen Neutralization performed on each positive HBsAg

Ordering Mnemonic HEPBSAGN

CPT Code 87340

Department Chemistry

Testing Frequency 5 days/week

Turn Around Time 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Hepatitis C Antibody

Ordering Mnemonic **HCVS** for screen, **HCVD** for diagnostic

CPT Code 87341 **Department** Chemistry

Testing Frequency 5 days/week **Turn Around Time** 3 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Hepatitis C Viral RNA

Test Includes: HCV RNA quantitative and qualitative

Ordering Mnemonic	HCVLOAD		
CPT Code	87522	Department	Immunology
Testing Frequency	1 day/week	Turn Around Time	1 week

Collection

Specimen	Plasma
Specimen Container	White top PPT tube is preferred. Lavender (EDTA) tube is acceptable if white tubes are not available
Minimum Amount	2 mL
Other Specimen Requirements	Store specimens refrigerated if not spun within 6 hours. Specimens must be spun within 24 hours

Reference Ranges

Quantitative: <12 IU/mL
 <1.08 log IU/mL
 Qualitative: Not detected

Transport to Life Laboratories

Shipping Instructions See **Other Specimen Requirements**

Herpes Simplex Virus I/II, IgG

Test Includes: HSV I IgG, HSV II IgG

Ordering Mnemonic HSVIGG

CPT Code 86695,86696

Department

Immunology

Testing Frequency 1 day/week

Turn Around Time

7 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Herpes Simplex Virus I/II, IgM

Test Includes: HSV I IgM, HSV II IgM

Ordering Mnemonic	HSVIGM		
CPT Code	86694	Department	Immunology
Testing Frequency	1 day/week	Turn Around Time	7 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges
Negative

Transport to Life Laboratories
Shipping Instructions

HIV 1/2 Antibody (EIA), Serum

Test Includes: Reflexes to HIV Differentiation test if positive

Ordering Mnemonic HIV1,2

CPT Code 86703

Department

Chemistry

Testing Frequency 7 days/week

Turn Around Time

1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

HIV-1 Viral Load

Test Includes: HIV RNA quantitative and qualitative

Ordering Mnemonic HIVLOAD

CPT Code 87536

Department

Immunology

Testing Frequency 1 day/week

Turn Around Time

1 week

Collection

Specimen Plasma

Specimen Container White top PPT tube is preferred.
Lavender (EDTA) tube is acceptable if white tubes are not available

Minimum Amount 2 mL plasma

Other Specimen Requirements Store specimens refrigerated if not spun within 6 hours. Specimens must be spun within 24 hours

Reference Ranges

Adult Quantitative: <20 IU/mL
<1.30 log IU/mL
Qualitative: Not detected

Transport to Life Laboratories

Shipping Instructions

Homocysteine

Ordering Mnemonic HOMO**CPT Code** 83090**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 3.2-10.7 umol/L

Transport to Life Laboratories

Shipping Instructions

IgA, Serum

Ordering Mnemonic	IGA		
CPT Code	82784	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges			
Adult	61 - 348 mg/dl		Pediatric
			0d. - 1yr. 20 - 83 mg/dl
			1- 5yr. 20 - 100
			5-11yr. 34 - 305
			11-15yr. 58 - 358

Transport to Life Laboratories	
Shipping Instructions	Room Temp

IgE, Serum

Ordering Mnemonic	IGE		
CPT Code	82785	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges			
Adult	0 - 158 IU/ml	Pediatric	
		0d. - 1yr.	1 - 52 IU/ml
		1- 5yr.	0 - 352
		5-11yr.	0 - 393
		11-15yr.	2 - 170

Transport to Life Laboratories	
Shipping Instructions	Room Temp

IgG, Serum

Ordering Mnemonic	IGG		
CPT Code	82784	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges			
Adult	549 - 1584 mg/dl	Pediatric	
		0d. - 1yr.	231 - 1411 mg/dl
		1- 5yr.	453 - 916
		5-11yr.	572 - 1474
		11-15yr.	759 - 1711

Transport to Life Laboratories
Shipping Instructions

IgM, Serum

Ordering Mnemonic	IGM		
CPT Code	82784	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges			
Adult	23 - 259 mg/dl		Pediatric
			0d. - 1yr. 0 - 145 mg/dl
			1- 5yr. 19 - 146
			5-11yr. 31 - 208
			11-15yr. 35 - 239

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Immature Platelet Fraction

Ordering Mnemonic	IPLTF		
CPT Code	85055	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Whole Blood
Specimen Container	Lavender-top tube with EDTA as anticoagulant
Minimum Amount	1-5 mL whole blood
Other Specimen Requirements	

Reference Ranges

Adult	0.9 - 7.0%
--------------	------------

Transport to Life Laboratories

Shipping Instructions	
------------------------------	--

Immuno Profile

Test Includes: IgG, IgA, IgM, IgE, Complement C3, Complement C4

Ordering Mnemonic	IMMU		
CPT Code	82784 (x 3)	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	3 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges
Refer to individual tests

Transport to Life Laboratories
Shipping Instructions Room Temp

Immunofixation, Serum

Test Includes: IgG, IgA, IgM, Serum immunofixation

Ordering Mnemonic	SIFE		
CPT Code	86334	Department	Immunology
Testing Frequency	5 days/week	Turn Around Time	2 days

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	No monoclonal protein noted

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Immunofixation, Urine

Ordering Mnemonic	UIFE		
CPT Code	86334	Department	Immunology
Testing Frequency	5 days/week	Turn Around Time	2 days

Collection	
Specimen	Urine
Specimen Container	Urine container for aliquot of 24 hour urine OR random
Minimum Amount	25 mL aliquot of well-mixed 24 hour urine OR random
Other Specimen Requirements	

Reference Ranges	
Adult	No monoclonal protein noted

Transport to Life Laboratories	
Shipping Instructions	

Immunoglobulins, Quantitative, Serum

Test Includes: IgG, IgA, IgM, IgE

Ordering Mnemonic **GAME**

CPT Code	82784 (x 3)	Department	Chemistry
-----------------	-------------	-------------------	-----------

Testing Frequency	7 days/week	Turn Around Time	3 days
--------------------------	-------------	-------------------------	--------

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions Room Temp

India Ink Preparation (for Cryptococcus)

Test Includes: Exam for encapsulated yeast in CSF

Ordering Mnemonic	INDINK		
CPT Code	87210	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	CSF
Specimen Container	Sterile plastic tube
Minimum Amount	1 mL cerebrospinal fluid (CSF)
Other Specimen Requirements	CSF specimen must be aspirated aseptically from the patient and promptly injected into a sterile plastic tube. Transport to lab STAT.

Reference Ranges	
Adult	Negative

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Critical Values	
Positive	

Influenza (FLU) A/B PCR

Test Includes: *Detection of Influenza A and Influenza B*

Ordering Mnemonic **Varies seasonally**

CPT Code

Department

Immunology &
Microbiology

Testing Frequency

7 days/week

Turn Around Time

Within 24 hours

Collection

Specimen Contact lab for seasonal test code and collection information

Specimen Container

Minimum Amount

**Other Specimen
Requirements**

Reference Ranges

Not detected

Transport to Life Laboratories

Shipping Instructions

Insulin

Ordering Mnemonic	INSULIN		
CPT Code	83525	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	3-25 mU/L

Transport to Life Laboratories	
Shipping Instructions	

Iron

Ordering Mnemonic	IRON		
CPT Code	83540	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	
	Male: 50-160 ug/dl
	Female: 40-150

Transport to Life Laboratories
Shipping Instructions

Iron & TIBC, w/ Transferrin Calculation, Serum

Test Includes: Iron, TIBC, Transferrin Saturation (calculated)

Ordering Mnemonic	TIBC		
CPT Code	83540, 83550	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges
Refer to individual tests

Transport to Life Laboratories
Shipping Instructions

Kleihauer-Betke stain

Test Includes: Fetal hemoglobin stain and Rhogam calculation

Ordering Mnemonic KBHGB

CPT Code 85460,

Department

Hematology

Testing Frequency 7 days/week

Turn Around Time

1 day

Collection

Specimen Whole blood

Specimen Container Lavender top tube with EDTA as anticoagulant

Minimum Amount 1-5 ml whole blood

Other Specimen Requirements Maternal blood specimen

Reference Ranges

Fetal hemoglobin <1.0%

Transport to Life Laboratories

Shipping Instructions

KOH Prep

Test Includes: Exam for yeast & fungal elements

Ordering Mnemonic	KOH		
CPT Code	87220	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1-3 days

Collection

Specimen	Nails, skin, hair
Specimen Container	Sterile plastic container
Minimum Amount	Enough nail pieces or skin scrapings to cover head of thumb tack, few pieces of hair
Other Specimen Requirements	Hair, skin scrapings or nail clippings submitted in sterile container; Must identify source/body site.

Reference Ranges

Negative. No fungal elements noted.

Transport to Life Laboratories

Shipping Instructions Room Temp

Lactate, Blood (Lactic Acid)

Ordering Mnemonic	LAC		
CPT Code	83605	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Plasma
Specimen Container	Grey-top tube with Potassium Oxalate as anticoagulant
Minimum Amount	1 mL plasma
Other Specimen Requirements	Keep on ICE at all times.

Reference Ranges

Adult	0.4 - 2.0 mmol/L
--------------	------------------

Transport to Life Laboratories

Shipping Instructions	Deliver to lab immediately
------------------------------	----------------------------

Critical Values

Adult	>3 mmol/L
--------------	-----------

Lactate Dehydrogenase (LDH)

Ordering Mnemonic	LDH		
CPT Code	83615	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	

Reference Ranges	
Adult	Pediatric
120 - 246 U/L	0d. - 1mo. 225 - 600 U/L 1mo. - 15yr. 120 - 300

Transport to Life Laboratories
Shipping Instructions

Lactate Dehydrogenase (LDH), Fluid

Ordering Mnemonic	BFLDH		
CPT Code	83615	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Body Fluid
Specimen Container	Sterile container
Minimum Amount	1 mL fluid
Other Specimen Requirements	Specify collection site or location

Reference Ranges

Adult	No reference ranges have been established for body fluids.
--------------	--

Transport to Life Laboratories

Shipping Instructions

Lanoxin (Digoxin)

Ordering Mnemonic	DIG		
CPT Code	80162	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Red top tube (DO NOT USE barrier)
Minimum Amount	1 mL serum
Other Specimen Requirements	

Reference Ranges	
Adult	0.5 - 2.0 ng/ml

Transport to Life Laboratories	
Shipping Instructions	

Critical Values	
Adult	>2 ng/mL

LDL Cholesterol, Direct

Ordering Mnemonic	LDL		
CPT Code	83721	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	<100 optimal
	100-129 near optimal
	130-159 borderline high
	160-189 high
	>190 very high

Transport to Life Laboratories
Shipping Instructions

Legionella Urinary Antigen

Ordering Mnemonic **LUA****CPT Code** 87449**Department** Microbiology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Urine**Specimen Container** Sterile screw cap container or urine gray top tube**Minimum Amount** 1 mL**Other Specimen Requirements** Refrigerated

Reference Ranges

Negative for Legionella pneumophila Serogroup 1 (presumptive negative for Legionella pneumophila Serogroup 1 infection)

Transport to Life Laboratories

Shipping Instructions Refrigerate

Lipase, Fluid

Ordering Mnemonic	BFLIP		
CPT Code	83690	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Body Fluid
Specimen Container	Sterile container
Minimum Amount	1 mL fluid
Other Specimen Requirements	Specify site or location

Reference Ranges

Adult	No reference ranges have been established for body fluids.
--------------	--

Transport to Life Laboratories

Shipping Instructions

Lipase, Serum

Ordering Mnemonic	LIP		
CPT Code	83690	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	13 - 75 U/L
--------------	-------------

Transport to Life Laboratories

Shipping Instructions

Lithium, Serum

Ordering Mnemonic	LITH		
CPT Code	80178	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Recommended draw time, 12 hours after last dose.

Reference Ranges

Adult	0.6 - 1.2 mmol/L
--------------	------------------

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	>1.3 mmol/L
--------------	-------------

Liver Function Panel (Hepatic Function)

Test Includes: Total Protein, Albumin, Total Bilirubin, Direct Bilirubin, Indirect Bilirubin, AST, ALT & Alk Phos

Ordering Mnemonic LIVERHFP

CPT Code 80076 **Department** Chemistry

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Luteinizing Hormone (LH)

Ordering Mnemonic	LH		
CPT Code	83002	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.3 mL Serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges		
Adult	Females normally menstruating:	
	Follicular phase	1.9-12.8 mIU/ml
	Midcycle peak	22.8 -76.1
	Luteal phase	0.6-13.5
	Postmenopausal:	5.0-52.3
	On HRT	1.1-52.4
	Untreated	8.6-61.8
	Male:	1.2-10.6 mIU/ml

Transport to Life Laboratories
Shipping Instructions

Lyme Antibodies, IgG & IgM (Borrelia burgdorferi)

Test Includes: Screening for Lyme antibodies and reflex testing for Lyme IgG and IgM with interpretation if screen is positive.

Ordering Mnemonic LYMEP

CPT Code	86618	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.3 mL Serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	Negative
--------------	----------

Transport to Life Laboratories

Shipping Instructions

Magnesium

Ordering Mnemonic	MG		
CPT Code	83735	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Pediatric
1.9-2.6 mg/dl	0d. - 1mo. 1.8-2.4 mg/dl

Transport to Life Laboratories
Shipping Instructions

Critical Values	
Adult	Pediatric
<1.0 mg/dL >4.9 mg/dL	0d. - 1mo. <1.0 mg/dl >3.0 mg/dl

Meningitis Encephalitis Panel

Test Includes: E. coli, H. influenzae, Listeria monocytogenes, Neisseria meningitidis, Streptococcus agalactiae, Streptococcus pneumoniae, CMV, Enterovirus, HSV 1, HSV 2, Human Herpes Virus 6, Human Parechovirus, Varicella zoster, Cryptococcus neoformans/gattii

Ordering Mnemonic **MEPANEL**

CPT Code 87798 x 14 **Department** Reference Lab

Testing Frequency Contact Lab **Turn Around Time** Contact Lab

Collection

Specimen CSF

Specimen Container CSF tube

Minimum Amount 1 mL

**Other Specimen
Requirements**

Reference Ranges

Contact Lab

Transport to Life Laboratories

Shipping Instructions

Methotrexate

Ordering Mnemonic **METHOX****CPT Code** 80299**Department**

Reference Lab

Testing Frequency Contact Lab**Turn Around Time**

Contact Lab

Collection

Specimen Serum**Specimen Container** Plain red-top tube**Minimum Amount** 1 mL**Other Specimen Requirements** Protect from light. Frozen.

Reference Ranges

Contact Lab

Transport to Life Laboratories

Shipping Instructions

MIC/Additional Susceptibility Drugs

Test Includes: Additional requested susceptibility, for CLSI appropriate antibiotics

Ordering Mnemonic

CPT Code	87181 per drug	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1-3 days

Collection

Specimen	Bacterial isolate
Specimen Container	Culture plate or slant
Minimum Amount	Viable isolate
Other Specimen Requirements	Pure subculture of isolate required, Please specify identification of isolate to be tested; Must identify source/body site.

Reference Ranges

Susceptibility interpretation

Transport to Life Laboratories

Shipping Instructions Room Temp

Microalbumin, Urine

Test Includes: Random urine microalbumin, Creatinine and microalbumin/creatinine ratio

Ordering Mnemonic	RUMA		
CPT Code	82043	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Urine
Specimen Container	Sterile plastic Urine container
Minimum Amount	10 mL aliquot of urine
Other Specimen Requirements	

Reference Ranges	
Adult	random: <30 mg/L

Transport to Life Laboratories	
Shipping Instructions	

Microalbumin, Urine 24-Hour

Ordering Mnemonic **UMALB24**
CPT Code 82043 **Department** Chemistry

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Urine

Specimen Container Plastic 24 hour Urine container

Minimum Amount 1 mL serum

Other Specimen Requirements 10 mL aliquot of urine
 Note 24 hour total volume

Reference Ranges

Adult 24 hour: <30 mg/24hr

Transport to Life Laboratories

Shipping Instructions

Microscopic Exam, Urine

Test Includes: RBC, WBC, Epithelial cells, Crystals, Casts, Bacteria, other significant findings

Ordering Mnemonic **UAMICRO, UMICRO** (with reflex culture)

CPT Code 81015 **Department** Hematology

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Urine

Specimen Container Sterile plastic Urine container

Minimum Amount 10 mL urine

Other Specimen Requirements

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

M.M.R. Screen Profile

Test Includes: Immunity screen for Rubeola, Mumps, Rubella

Ordering Mnemonic	MMR		
CPT Code	86765, 86735, 86762	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	See individual assays

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Mono Screen

Ordering Mnemonic MONOSCR**CPT Code** 86308**Department** Immunology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Mouth Culture, Bacterial

Test Includes: Culture, identification of pathogens

Ordering Mnemonic	MISCC		
CPT Code	87070	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	3 days

Collection	
Specimen	Mouth, tongue
Specimen Container	Routine culture swab in transport media
Minimum Amount	Swab from mouth
Other Specimen Requirements	Must identify source/body site.

Reference Ranges
No pathogens noted

Transport to Life Laboratories
Shipping Instructions Room Temp

MRSA Surveillance PCR

Test Includes: Detection of MRSA (methicillin resistant Staph aureus)

Ordering Mnemonic	MRSASCRPCR		
CPT Code	87641	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Nares
Specimen Container	Routine culture swab in Liquid Amies, Liquid Stuart or Eswab media.
Minimum Amount	
Other Specimen Requirements	Stable up to 24 hours at room temperature or 7 days at 2-8 degrees C.

Reference Ranges	
Negative for MRSA	

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Mumps Ab (IgG)

Ordering Mnemonic MUMPSP

CPT Code 86735

Department Immunology

Testing Frequency 2 days/week

Turn Around Time 3 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult Positive

Transport to Life Laboratories

Shipping Instructions

Mycoplasma pneumoniae Culture

Ordering Mnemonic MYCO

CPT Code 87109

Department

Reference

Testing Frequency Contact Lab

Turn Around Time

Contact Lab

Collection

Specimen Swab

Specimen Container Viral, Chlamydia, or Mycoplasma culture transport medium

Minimum Amount 1 swab

Other Specimen Requirements **Must identify source/body site**

Reference Ranges

Contact lab

Transport to Life Laboratories

Shipping Instructions

Myeloperoxidase Ab (see ANCA Abs)

Test Includes: Myeloperoxidase antibody and Proteinase-3 (PR3) antibody

Ordering Mnemonic **ANCA**

CPT Code	86021 (x2)	Department	Immunology
-----------------	------------	-------------------	------------

Testing Frequency	1 day/week	Turn Around Time	3 days
--------------------------	------------	-------------------------	--------

Collection

Specimen	Serum
-----------------	-------

Specimen Container	Gold-top serum separator tube (SST)
---------------------------	-------------------------------------

Minimum Amount	1 mL serum
-----------------------	------------

Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)
------------------------------------	--

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Norovirus, RT-PCR

Test Includes: *Norovirus GI, Norovirus GII*

Ordering Mnemonic	NOROVIRUS		
CPT Code	87798 x2	Department	Reference
Testing Frequency	Contact Lab	Turn Around Time	Contact Lab

Collection

Specimen	Stool
Specimen Container	Sterile container
Minimum Amount	0.2 mL
Other Specimen Requirements	

Reference Ranges

Contact Lab

Transport to Life Laboratories

Shipping Instructions

Nose Culture, Bacterial

Test Includes: Culture, identification of pathogens & susceptibilities

Ordering Mnemonic NOSEC

CPT Code 87070

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 3 days

Collection

Specimen Nose

Specimen Container Routine culture swab in transport media

Minimum Amount Nasal culture swab

Other Specimen Requirements **Must identify source/body site.**

Reference Ranges

No pathogens noted

Transport to Life Laboratories

Shipping Instructions Room Temp

Occult Blood, Gastric

Ordering Mnemonic OBGAS**CPT Code** 82271 **Department** Microbiology**Testing Frequency** 7 days/week **Turn Around Time** 1 day

Collection

Specimen Gastric contents**Specimen Container** Sterile screw cap container**Minimum Amount** 1 ml**Other Specimen Requirements** Specimen is stable for up to 24 hours at room temperature, or 5 days at 2-8 degrees C.

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions Refrigerate

Opiates, Urine

Ordering Mnemonic	UOP		
CPT Code	80307	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Urine
Specimen Container	10 mL Urine, no additives
Minimum Amount	10 mL urine
Other Specimen Requirements	

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Organism Identification, Plated Isolate

Test Includes: *Identification & susceptibilities*

Ordering Mnemonic	ORGID (urine) or ID (other source)		
CPT Code	87077 or 87106	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1-2 days

Collection	
Specimen	Plated organism
Specimen Container	Plate or slant
Minimum Amount	Viable isolate
Other Specimen Requirements	Pure subculture of isolate to be tested; Must identify source/body site.

Reference Ranges
Isolate Identification

Transport to Life Laboratories
Shipping Instructions Room Temp

Osmolality, Serum

Ordering Mnemonic OSMO**CPT Code** 83930**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 280 - 300 uosm/kg

Transport to Life Laboratories

Shipping Instructions

Osmolality, Urine

Ordering Mnemonic UOSMO

CPT Code 83935

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Urine

Specimen Container Sterile urine container

Minimum Amount 2 mL urine

Other Specimen Requirements Random urine

Reference Ranges

Adult 300 - 1300 uosm/kg

Transport to Life Laboratories

Shipping Instructions

Ova & Parasites, Stool

Test Includes: Concentration & Stain Exams to detect & Identify fecal parasite

Ordering Mnemonic	OP		
CPT Code	87177, 87209	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	3-5 days

Collection	
Specimen	Stool
Specimen Container	Para-pak collection vial set containing PVA and formalin fixatives or Sterile plastic container. Add sample to fill line.
Minimum Amount	Stool specimen submitted in Para-pak collection vial set
Other Specimen Requirements	Collection Vials contain PVA and formalin preservatives . Alternate specimen is fresh unpreserved stool, must deliver to Lab within 24 hours of collection. Diagnostic guidelines recommend submitting 3 test samples collected on consecutive collection dates.

Reference Ranges
No Ova and Parasites noted

Transport to Life Laboratories
Shipping Instructions Room Temp

Parasite Identification

Test Includes: Exam to detect & Identify parasitic worms or mites

Ordering Mnemonic	PARASITID		
CPT Code	87169	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Suspect worm, mites
Specimen Container	Sterile plastic container
Minimum Amount	1 suspect parasite
Other Specimen Requirements	Add sterile saline to keep moist.

Reference Ranges

No parasite noted.

Transport to Life Laboratories

Shipping Instructions Room Temp

Parasite smear, Blood

Test Includes: *Anaplasma, Babesia, Ehrlichia, Malaria species*

Ordering Mnemonic **MALSMR**

CPT Code 87207 **Department** Hematology

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Whole Blood

Specimen Container Lavender-top tube with EDTA as anticoagulant

Minimum Amount 1-5 mL whole blood

Other Specimen Requirements

Reference Ranges

No parasites seen

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult Parasites present

Pediatric Parasites present

Parathyroid Hormone, Intact

Ordering Mnemonic	PTH		
CPT Code	83970	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	18-88 pg/ml

Transport to Life Laboratories	
Shipping Instructions	

Peripheral Blood Smear Interpretation

Ordering Mnemonic MDIFF-ORDERED**CPT Code** 85007 **Department** Hematology**Testing Frequency** 7 days/week **Turn Around Time** 1 day

Collection

Specimen Whole Blood or slides**Specimen Container** Lavender-top tube with EDTA as anticoagulant OR 6-8 unstained smears with most recent CBC results.**Minimum Amount** 1 slide**Other Specimen Requirements** Store and ship at room temperature.

Reference Ranges

Refer to individual Tests

Transport to Life Laboratories

Shipping Instructions

pH, Fluid

Ordering Mnemonic BFPH**CPT Code** 83986**Department** Hematology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Fluid**Specimen Container** Sterile plastic tube**Minimum Amount** 1 mL fluid**Other Specimen Requirements** Specify source or location

Reference Ranges

No established reference range

Transport to Life Laboratories

Shipping Instructions

pH, Stool

Ordering Mnemonic	STPH		
CPT Code	83986	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Stool
Specimen Container	Sterile container
Minimum Amount	1 gram of stool submitted in a leak-proof container, refrigerated 2-8° C
Other Specimen Requirements	

Reference Ranges

pH	7-8
----	-----

Transport to Life Laboratories

Shipping Instructions

pH, Urine

Ordering Mnemonic	UPH		
CPT Code	81003	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Urine
Specimen Container	Sterile urine container
Minimum Amount	10 mL urine
Other Specimen Requirements	

Reference Ranges

Adult	5.0 - 8.0
--------------	-----------

Transport to Life Laboratories

Shipping Instructions	
------------------------------	--

Phosphorus, 24-hour urine

Ordering Mnemonic UPHOS24**CPT Code** 84105**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Urine**Specimen Container** Urine container for aliquot of 24 hour urine**Minimum Amount** 10 mL aliquot of urine**Other Specimen Requirements** Note total volume of 24 hr collection

Reference Ranges

Adult 500-1200 mg/24hr

Transport to Life Laboratories

Shipping Instructions

Phosphorus, Urine Random

Ordering Mnemonic UPHOSR

CPT Code 84105

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Urine

Specimen Container Sterile plastic container

Minimum Amount 10 mL urine

Other Specimen Requirements Random urine

Reference Ranges

No established reference range

Transport to Life Laboratories

Shipping Instructions

Phosphorus

Ordering Mnemonic	PHOS		
CPT Code	84100	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges			
Adult		Pediatric	
	2.5 - 4.5 mg/dl	0 d. - 4 d.	5.0 - 7.8 mg/dl
		4 d. - 7 d.	5.8 - 9.0
		7 d. - 13 d.	4.8 - 8.9
		13 d. - 2 yr.	4.2 - 7.0
		2 yr. - 5 yr.	3.5 - 6.8
		5 yr. - 8 yr.	3.1 - 6.3
		8 yr. - 12 yr.	3.0 - 6.0
		12 yr. - 16 yr.	2.5 - 5.0

Transport to Life Laboratories	
Shipping Instructions	

Critical Values			
Adult		Pediatric	
	<1.0 mg/dL	0 d. - 13 d.	<1.0 or >10 mg/dL
		13 d. - on	see Adult

Pinworm Examination

Test Includes: Exam to detect & Identify Pinworm

Ordering Mnemonic	PIN		
CPT Code	87172	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Paddle prep from Anus
Specimen Container	Pinworm paddle
Minimum Amount	Pinworm paddle
Other Specimen Requirements	Pinworm collection paddles available from Microbiology.

Reference Ranges

Negative for E. vermicularis (Pinworm eggs)

Transport to Life Laboratories

Shipping Instructions Room Temp

Platelet Count

Ordering Mnemonic	PLT		
CPT Code	85049	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Whole Blood
Specimen Container	Lavender-top tube with EDTA as anticoagulant
Minimum Amount	1-5 mL whole blood
Other Specimen Requirements	

Reference Ranges			
Adult	130-400 X10 ³ /μL	Pediatric	<24 hours 120-400 x10 ³ /μL

Transport to Life Laboratories
Shipping Instructions

Critical Values			
Adult	<20 x10 ³ /μL >1000 x10 ³ /μL	Pediatric	<24 hours 1 d. - 1 M. <100 x10 ³ /μL <80 x10 ³ /μL

Pneumocystis Direct FA

Ordering Mnemonic	PCPDFA		
CPT Code	87281	Department	Reference
Testing Frequency	Contact Lab	Turn Around Time	Contact Lab

Collection	
Specimen	Induced sputum, bronchial alveolar lavage (BAL), lung tissue, bronchial brush, tracheal aspirates, transtracheal aspirates, body fluids
Specimen Container	Sterile container
Minimum Amount	5 to 10 mL induced sputum, 10 to 25 mL BAL, 0.5 to 1 cc tissue or biopsy fluid
Other Specimen Requirements	

Reference Ranges
Contact Lab

Transport to Life Laboratories
Shipping Instructions Refrigerate

Potassium

Ordering Mnemonic	K		
CPT Code	84132	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult & Pedi	3.5 - 5.5 mmol/L

Transport to Life Laboratories	
Shipping Instructions	

Critical Values	
Adult & Pedi	<3.0 mmol/L >6.0 mmol/L

Potassium, Plasma

Ordering Mnemonic PLASMAK

CPT Code 84132 **Department** Chemistry

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Plasma

Specimen Container Green-top tube with Sodium Heparin as anticoagulant

Minimum Amount 2 mL plasma

Other Specimen Requirements

Reference Ranges

Adult & Pedi 3.5 - 5.5 mmol/L

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult & Pedi <3.0 mmol/L
>6.0 mmol/L

Potassium, Urine 24-Hour

Ordering Mnemonic UK24**CPT Code** 84133**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Urine**Specimen Container** 24 hour urine container**Minimum Amount** 10 mL aliquot from 24 hour urine collection**Other Specimen Requirements** Note total volume

Reference Range

25 - 120 mmol/24H

Transport to Life Laboratories

Shipping Instructions

Potassium, Urine Random

Ordering Mnemonic	UKR		
CPT Code	84133	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Urine
Specimen Container	Urine container
Minimum Amount	10 mL urine
Other Specimen Requirements	

Reference Range

No established reference range

Transport to Life Laboratories

Shipping Instructions

Prealbumin

Ordering Mnemonic PREAL**CPT Code** 84134**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 18 - 45 mg/dl

Transport to Life Laboratories

Shipping Instructions

Procalcitonin

Ordering Mnemonic	PCT		
CPT Code	84145	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.3 mL
Other Specimen Requirements	

Reference Ranges

Adult	< 0.16 ng/ml
--------------	--------------

Transport to Life Laboratories

Shipping Instructions

Progesterone

Ordering Mnemonic **PROG**
CPT Code 84144

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult
Non-pregnant females:

Follicular phase	0.15 - 1.40 ng/ml
Luteal phase	3.34 - 25.56
Mid-Luteal	4.44 - 28.03

Post menopausal: 0.73 or less

Pregnant females:

First Trimester	11.22 - 90.00
Second Trimester	25.55 - 89.40
Third Trimester	48.40 - 422.50

Male: <0.2 -1.97

Transport to Life Laboratories

Shipping Instructions

Prolactin, Serum

Ordering Mnemonic	PROL		
CPT Code	84146	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges		
Adult	Non-pregnant:	2.8-29.2 ng/dl
	Postmenopausal:	1.8-20.3
	Pregnant:	9.7-208.5
	Male:	2.5-17.4

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Protein Electrophoresis - 24 Urine

Test Includes: Urine Total Protein, Urine Electrophoresis

Ordering Mnemonic	UEP		
CPT Code	84156, 84166, 82570	Department	Immunology
Testing Frequency	Mon - Fri	Turn Around Time	3 days

Collection	
Specimen	Urine
Specimen Container	24 hour urine container
Minimum Amount	10 ml Urine
Other Specimen Requirements	

Reference Ranges
Refer to individual tests

Transport to Life Laboratories
Shipping Instructions Room Temp

Protein Electrophoresis - Serum

Test Includes: Serum Total Protein, Serum electrophoresis

Ordering Mnemonic EP

CPT Code 84165, 84155

Department Immunology

Testing Frequency Mon - Fri

Turn Around Time 3 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions Room Temp

Protein, Total

Ordering Mnemonic	TP		
CPT Code	84155	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	

Reference Ranges

Adult	6.0-8.0 G/dL
--------------	--------------

Transport to Life Laboratories

Shipping Instructions	Room Temp
------------------------------	-----------

Protein, Total, CSF

Ordering Mnemonic CSFTP**CPT Code** 84157**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Cerebrospinal fluid (CSF)**Specimen Container** Sterile plastic tube or red-top tube (plain) with no additive**Minimum Amount** 1 mL (CSF)**Other Specimen
Requirements**

Reference Ranges

15-45 mg/dL

Transport to Life Laboratories

Shipping Instructions Room Temp

Protein, Total, Fluid

Ordering Mnemonic BFTP**CPT Code** 84157**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Fluid**Specimen Container** Sterile plastic tube or red-top tube (plain) with no additive**Minimum Amount** 1 mL fluid**Other Specimen
Requirements**

Reference Ranges

No reference ranges have been established for body fluids.

Transport to Life Laboratories

Shipping Instructions Room Temp

Protein, Total, Urine 24-Hour

Ordering Mnemonic **UTP24**
CPT Code 84155 **Department** Chemistry

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Urine

Specimen Container Urine container for aliquot of 24 hour urine

Minimum Amount 10 mL aliquot of urine

Other Specimen Requirements Note total volume of 24 hour collection

Reference Ranges

Adult 0 - 150 mg/24 hr

Transport to Life Laboratories

Shipping Instructions

Protein, Urine, Random

Ordering Mnemonic	UTPR		
CPT Code	84156	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Urine
Specimen Container	Sterile urine container
Minimum Amount	10 ml random urine
Other Specimen Requirements	

Reference Ranges

Transport to Life Laboratories
Shipping Instructions

PSA, Complexed (Free PSA profile)

Test Includes: Total PSA, Complexed PSA, Free PSA (calculated), % Free PSA

Ordering Mnemonic PSATF

CPT Code 84153, 84154

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 0.3 mL Serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

PSA, Total

Ordering Mnemonic	PSAS for screen, PSAD for diagnostic		
CPT Code	84153	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	0.0-4.0 ng/ml
--------------	---------------

Transport to Life Laboratories

Shipping Instructions	Room Temp
------------------------------	-----------

PT (Prothrombin Time)/INR

Test Includes: Prothrombin Time and calculated INR

Ordering Mnemonic	PT		
CPT Code	85610	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Plasma
Specimen Container	Blue-top tube with Sodium Citrate as anticoagulant
Minimum Amount	Tube must be full
Other Specimen Requirements	Tube must be full and well-mixed

Reference Ranges

PT 10.6 - 13.9 sec

Transport to Life Laboratories

Shipping Instructions

Critical Values

>5.0 INR

PTH, Intact

Ordering Mnemonic	PTH		
CPT Code	83970	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges
18 - 88 pg/mL

Transport to Life Laboratories
Shipping Instructions Room Temp

PT Mixing Studies

Test Includes: PT mixing studies (requires Pathology approval)

Ordering Mnemonic CIRCANTPT

CPT Code 85610, 85611 (x2)

Department Hematology

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Plasma

Specimen Container (2) Blue-top tubes with Sodium Citrate as anticoagulant

Minimum Amount Tubes must be full

Other Specimen Requirements Tube must be full and well-mixed

Requires Pathology approval

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

PTT

Ordering Mnemonic	PTT		
CPT Code	85730	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Plasma
Specimen Container	Blue-top tube with Sodium Citrate
Minimum Amount	Tube must be full
Other Specimen Requirements	Tube must be full and well-mixed

Reference Ranges

24.1-39.3 seconds

Transport to Life Laboratories

Shipping Instructions Separate plasma and freeze if testing will not be performed within 4 hours, otherwise ship ambient

Critical Values

>99 seconds

PTT Mixing Studies

Test Includes: PTT tests (immediate and incubated)

Ordering Mnemonic	CIRCANTPTT		
CPT Code	85732	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Plasma
Specimen Container	(2) Blue-top tubes with Sodium Citrate as anticoagulant
Minimum Amount	Tubes must be full
Other Specimen Requirements	Tube must be full and well-mixed Requires Pathology approval

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions Separate plasma and freeze if testing will not be performed within 4 hours, otherwise ship ambient

Quantiferon TB Gold Plus (QFT Plus)

Test Includes: *Quantiferon qualitative and quantitative*

Ordering Mnemonic QFTPLUS

CPT Code 86480

Department Immunology

Testing Frequency 3 days/week

Turn Around Time 3 days

Collection

Specimen Whole blood

Specimen Container Special collection kit required, consists of special QFT Plus grey, yellow, green and lavender top tubes

Minimum Amount 1 mL in each tube

Other Specimen Requirements Tubes must be shaken 10 times after draw. Send tubes to Immunology Department within 16 hours of draw. Order of draw does not matter for tubes in this kit.

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions Maintain tubes at room temperature

RBC

Ordering Mnemonic	Part of CBC panel		
CPT Code	85041	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Whole Blood
Specimen Container	Lavender-top tube with EDTA as anticoagulant
Minimum Amount	1-5 mL whole blood specimen
Other Specimen Requirements	

Reference Ranges			
Adult		Pediatric	
Male:	4.5 - 5.5 x10 ⁶ /μL	Age:	
Female:	3.8 - 4.8	0 - 4 days	4.7 - 6.1 x10 ⁶ /μL
		4 - 15 days	3.6 - 6.2
		15 d. - 2mo.	3.0 - 5.4
		2 - 3 mo.	2.7 - 4.9
		3 - 6 mo.	3.1 - 4.5
		6 mo. - 3 yr.	3.7 - 5.3
		3 - 7 yr.	3.9 - 5.3
		7 - 12 yr.	4.0 - 5.2

Transport to Life Laboratories
Shipping Instructions

Respiratory Pathogen Panel PCR

Test Includes:
Viral Targets:

Adenovirus
 Coronavirus HKU1
 Coronavirus NL63
 Coronavirus 229E
 Coronavirus OC43
 Human Metapneumovirus
 Human Rhinovirus/Enterovirus
 Influenza A
 Influenza A/H1
 Influenza A/H3
 Influenza A/H1-2009
 Influenza B

Parainfluenza Virus 1
 Parainfluenza Virus 2
 Parainfluenza Virus 3
 Parainfluenza Virus 4
 Respiratory Syncytial Virus
 SARS-CoV-2

Bacterial Targets:

Bordetella parapertussis
 Bordetella pertussis
 Chlamydophila pneumoniae
 Mycoplasma pneumoniae

Ordering Mnemonic	RDVP		
CPT Code	87633, 87798, 87486, 87581	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	24 hours

Collection	
Specimen	Nasopharyngeal (NP) fine-tip flocked swab
Specimen Container	3ml Universal Viral Transport media(VTM)
Minimum Amount	Flocked swab in VTM
Other Specimen Requirements	Not acceptable for collection: wooden, cotton or calcium alginate swabs. Specimens must be refrigerated, Stable up to 72 hours.

Reference Ranges
Targets not detected

Transport to Life Laboratories
Shipping Instructions Specimens must be refrigerated, Stable up to 72 hours

Reticulocyte Count

Ordering Mnemonic	RETIC		
CPT Code	85045	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	85045
Specimen Container	Lavender-top tube with EDTA as anticoagulant
Minimum Amount	1-5 mL whole blood specimen
Other Specimen Requirements	

Reference Ranges

Adult	0.7 - 1.7%	Pediatric	0 - 15 days	2.5 - 6.5%
-------	------------	-----------	-------------	------------

Transport to Life Laboratories

Shipping Instructions

Rheumatoid Factor

Ordering Mnemonic	RHEUF		
CPT Code	86430	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	<15 IU/mL

Transport to Life Laboratories	
Shipping Instructions	

RSV (Respiratory Syncytial Virus) PCR

Test Includes: *Detection of Respiratory Syncytial Virus (RSV)*

Ordering Mnemonic	Varies seasonally		
CPT Code	87798	Department	Immunology & Microbiology
Testing Frequency	7 days/week	Turn Around Time	Within 24 hours

Collection

Specimen Contact lab for seasonal test code and collection information

Specimen Container

Minimum Amount

Other Specimen Requirements

Reference Ranges

Not detected.

Transport to Life Laboratories

Shipping Instructions

Rubella Antibodies, IgG

Ordering Mnemonic	RUBG		
CPT Code	86762	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	0.3 mL Serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Positive

Transport to Life Laboratories	
Shipping Instructions	

Rubeola (Measles) Immunity Screen, IgG

Ordering Mnemonic MEASLESP**CPT Code** 86765**Department** Immunology**Testing Frequency** 2 days/week**Turn Around Time** 3 days

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 0.4 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult Positive

Transport to Life Laboratories

Shipping Instructions

Salicylate, Serum

Ordering Mnemonic **SALIC****CPT Code** 80392**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen
Requirements**

Reference Ranges

Adult 2.0-29.0 mg/L

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult >30 mg/L

Scabies Mite Examination

Test Includes: Exam to detect & Identify Scabies mites

Ordering Mnemonic	SCABIES		
CPT Code	87177	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Prepared scabies kit slides
Specimen Container	Taped petri-dish containing prepared slides
Minimum Amount	1 prepared slide
Other Specimen Requirements	Skin scraping submitted on clean glass slide. Press specimen between two slides with cellulose tape around all edges; Scabies collection kits available from Microbiology lab; Must identify source/body site.

Reference Ranges	
Adult	Negative for Scabies

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Sex Hormone Binding Globulin, Serum

Ordering Mnemonic SHBGLOB

CPT Code 84270

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 0.3 mL (NOTE: This volume does NOT allow for repeat testing.)

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Male:

21 y. - 49 y. 14.6 - 94.6 Nmol/L

50 y - 89 y. 21.6 - 113.1

Female:

pre-menopausal 10.8 - >180

post-menopausal 23.2 - 159.1

Transport to Life Laboratories

Shipping Instructions

Sickle Cell Screen

Ordering Mnemonic	SICK		
CPT Code	85660	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Whole blood
Specimen Container	Lavender-top tube with EDTA as anticoagulant
Minimum Amount	1 - 5 mL whole blood
Other Specimen Requirements	

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Sinus Culture, Bacterial Aerobic

Test Includes: Culture, gram stain, identification of pathogens & susceptibilities

Ordering Mnemonic	MISCC		
CPT Code	87070	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	3 days

Collection	
Specimen	Sinus source
Specimen Container	Routine culture swab in transport media or Sterile plastic container
Minimum Amount	Sinus Swab or Aspirate
Other Specimen Requirements	Note sinus site (i.e. maxillary, frontal, etc.)

Reference Ranges
No pathogens noted

Transport to Life Laboratories
Shipping Instructions Room Temp

Sjogren's SS-A & SS-B Ab

Test Includes: SS-A and SS-B Antibodies

Ordering Mnemonic **SJOG**

CPT Code 86235 (x 2)

Department Immunology

Testing Frequency 1 day/week

Turn Around Time 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Sodium

Ordering Mnemonic	NA		
CPT Code	84295	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges				
Adult	133 - 145 mEq/L	Pediatric	0 - 17 yr.	135 - 145 mEq/L

Transport to Life Laboratories	
Shipping Instructions	

Critical Values				
Adult	<120 mEq/L >160	Pediatric	0 - 17 yr.	<130 mEq/L >150

Sodium, Urine 24-Hour

Ordering Mnemonic UNA24

CPT Code 84238 & 84300

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Urine

Specimen Container 24 hour Urine container, no additives

Minimum Amount 10 mL aliquot of urine

Other Specimen Requirements Note 24 hr urine total volume.

Reference Ranges

Adult 40 - 220 mEq/24hr

Transport to Life Laboratories

Shipping Instructions

Specific Gravity, Fluid

Ordering Mnemonic **BFSG****CPT Code** 84315**Department** Hematology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Fluid**Specimen Container** Sterile plastic tube**Minimum Amount** 2 mL fluid**Other Specimen Requirements** Note source/body site

Reference Ranges

No reference ranges have been established for body fluids.

Transport to Life Laboratories

Shipping Instructions

Specific Gravity, Urine

Ordering Mnemonic USPGR**CPT Code** 81003**Department** Hematology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Urine**Specimen Container** Clean, dry urine container**Minimum Amount** 10 mL urine**Other Specimen
Requirements**

Reference Ranges

Adult Urines: 1.003 – 1.030

Transport to Life Laboratories

Shipping Instructions

Sputum Culture, Bacterial

Test Includes: Culture, gram stain, identification of pathogens & susceptibilities

Ordering Mnemonic	SPUC		
CPT Code	87070, 87205	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	3 days

Collection	
Specimen	Sputum
Specimen Container	Sterile plastic container
Minimum Amount	>1 mL sample
Other Specimen Requirements	Must identify source as Sputum and note if collection type other than Expecterated from a deep cough into a sterile container (i.e. Aspirated or ETT).

Reference Ranges
No pathogens noted

Transport to Life Laboratories
Shipping Instructions Room Temp

Critical Values
Isolation of Neisseria meningitidis

Strep pneumoniae, Urinary Antigen

Test Includes: Rapid test to detect Strep pneumoniae antigen

Ordering Mnemonic	SPNAG		
CPT Code	87449	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Urine
Specimen Container	Sterile plastic container or C & S urine gray-top tube.
Minimum Amount	1 mL urine
Other Specimen Requirements	Random urine collection

Reference Ranges	
Adult	Negative for Strep pneumoniae urinary antigen (Presumptive negative for pneumococcal pneumonia)

Transport to Life Laboratories	
Shipping Instructions	Refrigerate

T3, Free

Ordering Mnemonic	FT3		
CPT Code	84481	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	230 - 420 pg/dL
--------------	-----------------

Transport to Life Laboratories

Shipping Instructions

T3, Total (Triiodothyronine)

Ordering Mnemonic	T3T		
CPT Code	84480	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	60 - 181ng/dL
--------------	---------------

Transport to Life Laboratories

Shipping Instructions

Testosterone, Free

Test Includes: Total Testosterone, free and weakly bound testosterone, Albumin and Sex Hormone Binding Globulin

Ordering Mnemonic TESTPR

CPT Code 82040, 884270, 84403 **Department** Chemistry

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 0.6 mL (NOTE: This volume does NOT allow for repeat testing.)

Other Specimen Requirements

Reference Ranges

Refer to individual tests for Albumin, Total Testosterone and Sex Hormone Binding Globulin

Free Testosterone	Male:	18-69 yr.	4.6 - 22.4 ng/dL
		>70 yr.	0.6 - 7.3 ng/dL
	Female:		0.02 - 0.5 ng/dL
Bioavailable Testosterone	Male:	18-69 yr.	110 - 575 ng/dL
		>70 yr.	15 - 150 ng/dL
	Female:		0.5 - 8.5 ng/dL

Transport to Life Laboratories

Shipping Instructions

Testosterone, Total

Ordering Mnemonic	TEST		
CPT Code	84403	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult		Pediatric	
Male:	229 - 902 ng/dl	Male:	
		2 - 10 yr.	<7 - 29 ng/dL
Female:		11 - 12 yr.	<7 - 353
21 - 50 yr.	9 - 48	12 - 13 yr.	<7 - 562
> 51 yr.	<7 - 46	13 - 14 yr.	8 - 583
		14 - 15yr.	20 - 777
		15 - 16 yr.	127 - 849
		16 - 18 yr.	113 - 882
		Female:	
		2 - 10 yr.	<7 - 118
		11 - 15 yr.	<7 - 39
		16 - 20 yr.	15 - 42

Transport to Life Laboratories

Shipping Instructions

THC, Urine and metabolite (Marijuana)

Ordering Mnemonic	UTHC		
CPT Code	80307	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Urine
Specimen Container	Clean, dry urine container, no additives
Minimum Amount	10 mL urine
Other Specimen Requirements	No additives

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions

Throat Full Culture, (All Pathogens)

Test Includes: Culture, identification of all common throat pathogens, including Strep A

Ordering Mnemonic	THC		
CPT Code	87070	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	2 days

Collection	
Specimen	Throat
Specimen Container	Routine culture swab in transport media
Minimum Amount	Throat swab
Other Specimen Requirements	Specify suspected pathogen.

Reference Ranges
No pathogens noted

Transport to Life Laboratories
Shipping Instructions Room Temp

Thyroglobulin Ab (ATG)

Ordering Mnemonic	ATG		
CPT Code	86800	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	<60 U/mL
--------------	----------

Transport to Life Laboratories

Shipping Instructions

Thyroid Antibodies (ATG, ATPO)

Test Includes: Thyroglobulin Ab (ATG) & Thyroid Peroxidase Ab (TPO)

Ordering Mnemonic **THYAB**

CPT Code 86376, 86800

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Thyroid Function Cascade

Test Includes: TSH, reflexes FT4 and FT3 if necessary

Ordering Mnemonic **THYRP**

CPT Code 84443

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Thyroid Peroxidase Ab (TPO)

Ordering Mnemonic	TPO		
CPT Code	86376	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	<60 U/mL
--------------	----------

Transport to Life Laboratories

Shipping Instructions

Thyroid Stimulating Hormone (TSH)

Ordering Mnemonic TSH

CPT Code 84443

Department

Chemistry

Testing Frequency 7 days/week

Turn Around Time

1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 0.40 - 4.00 μ IU/mL

Pediatric	0 - 24 hr.	0.00 - 24.90 μ IU/mL
	1 - 2 d.	1.30 - 19.00
	3 d. - 1 mo.	1.10 - 10.00
	1 mo. - 1 yr.	0.80 - 6.30
	1 - 4 yr.	0.70 - 6.00
	5 - 9 yr.	0.60 - 5.40
	10 - 15yr.	0.50 - 4.90

Transport to Life Laboratories

Shipping Instructions

Thyroxine, Free (Free T-4)

Ordering Mnemonic	T4F		
CPT Code	84439	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	0.70 - 1.80 ng/dL	Pediatric	
		Age:	
		0 - 3 d.	1.16 - 2.95 ng/dL
		4 d. - 1 mo.	0.78 - 2.25
		1 mo. - 1 yr.	1.00 - 2.17
		1 - 6 yr.	1.16 - 1.71
		6 - 11 yr.	1.09 - 1.86
		11 - 16 yr.	1.16 - 1.71

Transport to Life Laboratories

Shipping Instructions

Thyroxine, Total (T4)

Ordering Mnemonic	T4T		
CPT Code	84436	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	4.5 - 10.9 ug/dL
--------------	------------------

Transport to Life Laboratories

Shipping Instructions

Tick Identification

Test Includes: Exam to detect & identify Ticks. Ticks will be classified as hard ticks or soft ticks, and hard ticks will be further identified as Ixodes species or not Ixodes species.

Ordering Mnemonic TICKID

CPT Code 87168

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Suspect Tick

Specimen Container Sterile plastic container

Minimum Amount 1 suspect tick

Other Specimen Requirements Submit entire tick in 70% alcohol.

Transport to Life Laboratories

Shipping Instructions Room Temp

Tissue (Biopsy) Culture, Bacterial

Test Includes: Aerobic and Anaerobic Culture, gram stain, identification & susceptibilities

Ordering Mnemonic	TISC		
CPT Code	87070, 87075, 87205	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	5-7 days

Collection	
Specimen	Tissue biopsy
Specimen Container	Sterile plastic container
Minimum Amount	Tissue biopsy
Other Specimen Requirements	Transport STAT for processing. Add sterile saline to keep moist, if sample size allows also add piece to Anaerobic Transport. Must identify source/body site.

Reference Ranges
No growth, No anaerobes noted

Transport to Life Laboratories
Shipping Instructions Room Temp

Transferrin Saturation (Calculated)

Test Includes: Iron, TIBC, Transferrin Saturation (calculated)

Ordering Mnemonic TIBC

CPT Code

Department

Chemistry

Testing Frequency

7 days/week

Turn Around Time

1 day

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 15 - 50 %

Transport to Life Laboratories

Shipping Instructions

Treponemal Antibody

Test Includes: *Treponemal Ab, reflexes to RPR if positive*

Ordering Mnemonic	TREPABS		
CPT Code	86780	Department	Immunology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges
Negative

Transport to Life Laboratories
Shipping Instructions

Triglycerides

Ordering Mnemonic	TRIG		
CPT Code	84478	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Patient to be fasting Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult	0-150 mg/dL
--------------	-------------

Transport to Life Laboratories

Shipping Instructions

Triglycerides, Fluid

Ordering Mnemonic BFTRIG**CPT Code** 84478**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Fluid**Specimen Container** Sterile container**Minimum Amount** 1 mL fluid**Other Specimen Requirements** Specify location or source

Reference Ranges

No reference ranges have been established for body fluids

Transport to Life Laboratories

Shipping Instructions

Troponin I, High Sensitivity

Test is only available for Inpatients and Emergency Department patients

Ordering Mnemonic	TROPHS		
CPT Code	84484	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Plasma
Specimen Container	Green-top Lithium Heparin tube
Minimum Amount	1 mL plasma
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Male	<79 pg/ml
Female	<54

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	>115 pg/mL
--------------	------------

t-Transglutaminase (tTG) IgA

Ordering Mnemonic TIGIGA

CPT Code 86364

Department Immunology

Testing Frequency 1-2days/week

Turn Around Time 3-7 days

Collection

Specimen Serum

Specimen Container Gold-top serum separator tube (SST)

Minimum Amount 1 mL serum

Other Specimen Requirements Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Negative

Transport to Life Laboratories

Shipping Instructions Room Temp

Urea Nitrogen, Blood

Ordering Mnemonic	BUN		
CPT Code	84520	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
0 - 5 days	4 - 15 mg/dL
6 days - 2 yr.	5 - 18
2 yr. - adult	5 - 25

Transport to Life Laboratories
Shipping Instructions

Critical Values
>150 mg/dL

Urea Nitrogen, Fluid

Ordering Mnemonic **BFUUN**

CPT Code 84520

Department Chemistry

Testing Frequency 7 days/week

Turn Around Time 1 day

Collection

Specimen Fluid

Specimen Container Sterile plastic tube

Minimum Amount 1 mL fluid

**Other Specimen
Requirements**

Reference Ranges

No reference ranges have been established for body fluids.

Transport to Life Laboratories

Shipping Instructions

Urea Clearance, Urine 24 hr

Test Includes: Serum BUN, 24 hour Urine Urea Nitrogen, Urea clearance

Ordering Mnemonic UUN24CL

CPT Code 84545

Department

Chemistry

Testing Frequency 7 days/week

Turn Around Time

1 day

Collection

Specimen Urine and serum

Specimen Container 24 Hour urine Container and 1 Gold-top serum separator tube (SST)

Minimum Amount 10 mL urine and 1 ml serum

Other Specimen Requirements Aliquot of well-mixed 24 hour urine. Note total volume. Centrifuge SST specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Contact Lab

Transport to Life Laboratories

Shipping Instructions

Urea Nitrogen, Urine

Ordering Mnemonic	UUNR		
CPT Code	84540	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Urine
Specimen Container	Sterile plastic urine container
Minimum Amount	10 mL random urine
Other Specimen Requirements	

Reference Ranges

No reference range established

Transport to Life Laboratories

Shipping Instructions

Urea Nitrogen, Urine 24-Hour

Ordering Mnemonic **UUN24****CPT Code** 84540**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Urine**Specimen Container** 24 Hour urine Container**Minimum Amount** 10 mL aliquot of urine**Other Specimen Requirements** Note 24 hour urine total volume

Reference Ranges

Adult 7-16 G/24 hr

Transport to Life Laboratories

Shipping Instructions

Uric Acid, Blood

Ordering Mnemonic	URIC		
CPT Code	84550	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges	
Adult	Male: 3.7-9.2 mg/dl
	Female: 3.1-7.8 mg/dl

Transport to Life Laboratories
Shipping Instructions

Uric Acid, Fluid

Ordering Mnemonic	BFURIC		
CPT Code	84560	Department	Reference
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Fluid
Specimen Container	Sterile plastic tube
Minimum Amount	1 mL fluid
Other Specimen Requirements	

Reference Ranges

No reference ranges have been established for body fluids.

Transport to Life Laboratories

Shipping Instructions

Uric Acid, Urine

Ordering Mnemonic	UURICR		
CPT Code	84560	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Urine
Specimen Container	Sterile plastic container
Minimum Amount	10 mL urine
Other Specimen Requirements	Random urine

Reference Ranges

No established reference range

Transport to Life Laboratories

Shipping Instructions

Uric Acid, Urine 24 Hour

Ordering Mnemonic	UURIC24		
CPT Code	84560	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Urine
Specimen Container	Urine container for aliquot of 24 hour urine
Minimum Amount	10 mL aliquot of urine
Other Specimen Requirements	Note total volume of 24 hour urine

Reference Ranges	
Adult	0 - 800 mg/24 hr

Transport to Life Laboratories	
Shipping Instructions	

Urinalysis, Complete

Test Includes: Glucose, Bilirubin, Ketone, Specific Gravity, Blood, pH, Protein, Urobilinogen, Nitrite, Leukocyte esterase, RBC, WBC, Epithelial cells, Crystals, Casts, Bacteria, other significant findings

Ordering Mnemonic	UA		
CPT Code	81001	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Urine
Specimen Container	Yellow top urinalysis tube or yellow marble top (send gray top with UA tube if culture may be added on)
Minimum Amount	10 mL urine
Other Specimen Requirements	First morning, clean catch urine preferred. Refrigerate plain yellow top if used, due to lack of preservative.

Reference Ranges
Refer to individual tests.

Transport to Life Laboratories
Shipping Instructions

Urinalysis, Reflex to Culture

Test Includes: Glucose, Bilirubin, Ketone, Specific Gravity, Blood, pH, Protein, Urobilinogen, Nitrite, Leukocyte esterase, RBC, WBC, Epithelial cells, Crystals, Casts, Bacteria, other significant findings

Ordering Mnemonic	UASC		
CPT Code	81001	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Urine
Specimen Container	For Urinalysis - Yellow top urinalysis tube or yellow marble top For Culture - gray top
Minimum Amount	10 mL urine
Other Specimen Requirements	First morning, clean catch urine preferred. Refrigerate plain yellow top if used, due to lack of preservative.

Reference Ranges
Refer to individual tests.

Transport to Life Laboratories
Shipping Instructions

Urine Culture

Test Includes: Culture, colony count, identification & susceptibilities for significant growth; gram stain included with catheter, surgical or other invasively collected specimens

Ordering Mnemonic	URC		
CPT Code	87086 If appropriate 87205	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	2 days

Collection	
Specimen	Urine
Specimen Container	C&S urine gray-top tube or Sterile plastic container
Minimum Amount	3 mL urine
Other Specimen Requirements	Vacutainer brand urine transport kit contains 5 mL gray-top tube (UTT) with preservative is recommended when urine can not be cultured within 2 hours. Gray-top Urine tubes do not require refrigeration & must be cultured within 48 hours of collection.

Reference Ranges
No Growth or No significant growth

Transport to Life Laboratories	
Stability	Preserved - Room Temp or Refrigerate ≤48 hr.
	Unpreserved - Room Temp <2 hr. or Refrigerate <24 hr.

Critical Values		
Pediatric	0d.-6 mo.	Positive

Urine Drug Screen

Test Includes: Amphetamines Barbiturates, Benzodiazepines, Cocaine metabolite, Opiates & THC metabolite

Ordering Mnemonic DOA

CPT Code 80101 (x6) **Department** Chemistry

Testing Frequency 7 days/week **Turn Around Time** 1 day

Collection

Specimen Urine

Specimen Container Clean, dry container, no additives

Minimum Amount 10 mL Urine

**Other Specimen
Requirements**

Reference Ranges

None detected

Transport to Life Laboratories

Shipping Instructions

Urine Drug Screen, Individual Drug

Ordering Mnemonic (search by drug name)

CPT Code	80100	Department	Chemistry
-----------------	-------	-------------------	-----------

Testing Frequency	7 days/week	Turn Around Time	1 day
--------------------------	-------------	-------------------------	-------

Collection

Specimen	Urine
-----------------	-------

Specimen Container	Clean, dry container, no additives
---------------------------	------------------------------------

Minimum Amount	10 mL Urine
-----------------------	-------------

Other Specimen Requirements	
------------------------------------	--

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Urine Drug Screen with Confirmation

Test Includes: Amphetamines Barbiturates, Benzodiazepines, Cocaine metabolite, Opiates & THC metabolite. Oxycodone is added to the profile if requested by the ordering location. All positive results are automatically confirmed by GC/MS methodology

Ordering Mnemonic	PAINUDS		
CPT Code	80101 (x6)	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day for screen

Collection

Specimen	Urine
Specimen Container	Clean, dry container, no additives
Minimum Amount	30 mL Urine
Other Specimen Requirements	

Reference Ranges

Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Valproic Acid (Depakote)

Ordering Mnemonic	VALP		
CPT Code	80164	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Recommended draw time for trough level is just before next dose.

Reference Ranges

Adult	50.0 - 100.0 ug/ml
--------------	--------------------

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	>130 ug/ml
--------------	------------

Vancomycin, Peak

Ordering Mnemonic	VANPK		
CPT Code	80202	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Recommended draw time, 1 hour after infusion.

Reference Ranges

Adult	20 - 40 ug/mL
--------------	---------------

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	>60 ug/mL
--------------	-----------

Vancomycin, Trough

Ordering Mnemonic	VANTR		
CPT Code	80202	Department	Chemistry
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Serum
Specimen Container	Gold-top serum separator tube (SST)
Minimum Amount	1 mL serum
Other Specimen Requirements	Recommended draw time is just before next dose.

Reference Ranges

Adult	10-20 ug/mL
-------	-------------

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	>30 ug/mL
-------	-----------

Varicella Zoster Ab, IgG

Ordering Mnemonic **VARZP****CPT Code** 86787**Department** Immunology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 0.5 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult Positive

Transport to Life Laboratories

Shipping Instructions

Vitamin B12

Ordering Mnemonic B12**CPT Code** 82607**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Overnight fasting is preferred.
Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 250 - 900 pg/mL

Transport to Life Laboratories

Shipping Instructions

Vitamin B12 & Folate

Ordering Mnemonic VBF**CPT Code** 82607, 82746**Department** Chemistry**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult Refer to individual tests

Transport to Life Laboratories

Shipping Instructions

Vitamin D, 25-Hydroxy

Ordering Mnemonic VITAD25**CPT Code** 82306**Department** Immunology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult 30-80 ng/mL

Transport to Life Laboratories

Shipping Instructions

Volatiles Panel

Test Includes: Ethylene glycol, Isopropanol, Acetone, Methanol

Ordering Mnemonic	VOLATILES		
CPT Code	80320	Department	Reference
Testing Frequency	Contact Lab	Turn Around Time	1-2 days

Collection	
Specimen	Whole Blood
Specimen Container	Plain red-top tube (Do NOT use barrier tube)
Minimum Amount	1 tube (will not allow repeat testing)
Other Specimen Requirements	Do NOT SPIN tube Do NOT OPEN tube

Reference Ranges
Contact Lab

Transport to Life Laboratories
Shipping Instructions

VRE Culture Screen, Stool

Test Includes: Culture screen to identify carrier status (not infection) with VRE (Vancomycin Resistant Enterococcus species)

Ordering Mnemonic	VRE		
CPT Code	87081	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	3 days

Collection	
Specimen	Stool, rectal
Specimen Container	Routine culture swab in transport media, Sterile plastic container or C&S stool transport
Minimum Amount	Random stool specimen
Other Specimen Requirements	Para-pak C&S (orange-top) Stool transport medium contains Cary-Blair preservative.

Reference Ranges	
Adult	Negative for VRE

Transport to Life Laboratories	
Shipping Instructions	Room Temp

VZV Ab (IgG), EIA

Ordering Mnemonic VARZP**CPT Code** 86787**Department** Immunology**Testing Frequency** 7 days/week**Turn Around Time** 1 day

Collection

Specimen Serum**Specimen Container** Gold-top serum separator tube (SST)**Minimum Amount** 1 mL serum**Other Specimen Requirements** Centrifuge specimen within 2 hrs. (4 hrs. max)

Reference Ranges

Adult Positive

Transport to Life Laboratories

Shipping Instructions

WBC

Ordering Mnemonic	WBC		
CPT Code	85048	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection

Specimen	Whole blood
Specimen Container	Lavender-top tube with EDTA as anticoagulant
Minimum Amount	1-5 mL whole blood
Other Specimen Requirements	

Reference Ranges

Adult	4.8 -10.8 x10 ³ /μL	Pediatric	0 - 3 days	11.1 -24.1 x10 ³ /μL
			4 - 14 days	8.1 -14.9 x10 ³ /μL
			15 - 30 days	7.1 -14.7 x10 ³ /μL
			1 - 6 months	7.2 -16.6 x10 ³ /μL
			6 mo. - 2 yrs.	7 -13.4 x10 ³ /μL
			2 - 6 yrs.	5.8 -11.4 x10 ³ /μL
			6 - 12 yrs.	4.6 -10.0 x10 ³ /μL

Transport to Life Laboratories

Shipping Instructions

Critical Values

Adult	<2 x10 ³ /μL >50 x10 ³ /μL	Pediatric	0 - 3 days	<9 x10 ³ /μL >34 x10 ³ /μL
			4 days - 2 yrs.	<5 x10 ³ /μL >20 x10 ³ /μL
			2 yrs. - 12 yrs.	<2 x10 ³ /μL >50 x10 ³ /μL

WBC & Differential

Test Includes: WBC and differential

Ordering Mnemonic	WBCDIFF		
CPT Code	85048, 85999	Department	Hematology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Whole blood
Specimen Container	Lavender-top tube with EDTA as anticoagulant
Minimum Amount	1-5 mL whole blood
Other Specimen Requirements	

Reference Ranges
Refer to individual tests

Transport to Life Laboratories
Shipping Instructions

Wet Prep, Vaginal

Test Includes: Exam for Yeast, Trichomonas, Clue cells, with reflex Trichomonas Antigen if indicated

Ordering Mnemonic	WET		
CPT Code	87210, if appropriate 87808	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	1 day

Collection	
Specimen	Vaginal
Specimen Container	Vaginal swab in 0.5 mL saline
Minimum Amount	Vaginal swab in 0.5 mL saline
Other Specimen Requirements	Must identify source/body site.

Reference Ranges
Negative for Yeast, Clue cells, Trichomonas

Transport to Life Laboratories
Shipping Instructions Room Temp

Wound Culture, Abscess, Bacterial Aerobic/Anaerobic

Test Includes: Aerobic & Anaerobic Culture, gram stain, identification of pathogens & susceptibilities

Ordering Mnemonic	ABSANCULT		
CPT Code	87070, 87075, 87205	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	5 days

Collection	
Specimen	Abscess drainage or site, multiple source types
Specimen Container	Routine culture swab in transport media & anaerobic transport swab
Minimum Amount	2 Swabs (aerobic & anaerobic) from identified source
Other Specimen Requirements	Specimens not submitted in Anaerobic Transport, anaerobic culture results may be compromised: Must identify source/body site.

Reference Ranges
No growth, No anaerobes noted

Transport to Life Laboratories
Shipping Instructions Room Temp

Wound Culture, Abscess, Bacterial Aerobic Only

Test Includes: Culture, gram stain, identification of pathogens & susceptibilities

Ordering Mnemonic **ABSCULT**

CPT Code 87070, 87205

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 3 days

Collection

Specimen Abscess drainage or site, multiple source types

Specimen Container Routine culture swab in transport media

Minimum Amount Swab from identified source

Other Specimen Requirements **Must identify source/body site.**

Reference Ranges

No Growth

Transport to Life Laboratories

Shipping Instructions Room Temp

Wound Culture, Cyst, Bacterial Aerobic Only

Test Includes: Culture, gram stain, identification of pathogens & susceptibilities

Ordering Mnemonic	CYSTC		
CPT Code	87070, 87205	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	3 days

Collection	
Specimen	Cyst drainage or site, multiple source types
Specimen Container	Routine culture swab in transport media
Minimum Amount	Swab from identified source
Other Specimen Requirements	Must identify source/body site.

Reference Ranges	
No Growth	

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Wound Culture, Deep Site, Bacterial Aerobic/Anaerobic

Test Includes: Aerobic & Anaerobic Culture, gram stain, identification of pathogens & susceptibilities

Ordering Mnemonic	WDCDEEPANC		
CPT Code	87070, 87075, 87205	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	5-7 days

Collection	
Specimen	Deep wound, multiple source types
Specimen Container	Routine culture swab in transport media & Anaerobic Transport swab
Minimum Amount	2 Swabs (aerobic & anaerobic) from identified source
Other Specimen Requirements	Specimens not submitted in Anaerobic Transport, anaerobic culture results may be compromised: Must identify source/body site.

Reference Ranges	
No growth, No anaerobes noted	

Transport to Life Laboratories	
Shipping Instructions	Room Temp

Wound Culture, Deep Site, Bacterial Aerobic Only

Test Includes: Culture, gram stain, identification of pathogens & susceptibilities

Ordering Mnemonic WDCDEEP

CPT Code 87070, 87205

Department Microbiology

Testing Frequency 7 days/week

Turn Around Time 3 days

Collection

Specimen Deep wound, multiple source types

Specimen Container Routine culture swab in transport media

Minimum Amount Swab from identified source

Other Specimen Requirements **Must identify source/body site.**

Reference Ranges

No Growth

Transport to Life Laboratories

Shipping Instructions Room Temp

Wound Culture, Surface Site, Bacterial Aerobic

Test Includes: Culture, gram stain, identification of pathogens & susceptibilities

Ordering Mnemonic	WDC		
CPT Code	87070, 87205	Department	Microbiology
Testing Frequency	7 days/week	Turn Around Time	3 days

Collection	
Specimen	Superficial (surface) wound, multiple source types
Specimen Container	Routine culture swab in transport media
Minimum Amount	Swab from identified source
Other Specimen Requirements	Must identify source/body site.

Reference Ranges
No Growth or No significant growth

Transport to Life Laboratories
Shipping Instructions Room Temp