



Spectra Laboratories Test Menu

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A/G RATIO (CALC)

Alternate Name/Abbreviation

Albumin/Globulin Ratio includes Globulin calculation

Test Code

127

Specimen Requirements

1.0 mL serum (SST Gel Tube)

Other Requirements

Calculated from Total Protein and Albumin

Reference Range

1.0 - 2.0

Test Usage

Monitoring of protein loss

Methodology

Calculation: Globulin = Total Protein - Albumin

A/G Ratio = (Albumin/Globulin)

Interferences

1. Hemolyzed Specimen 2. Lipemic Specimen

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

1759-0

CPT Code

Calculation

AAMI CHEMICAL CONTAMINANTS, WATER

Alternate Name/Abbreviation

AAMI Water Testing, AAMI Standard Tests

Test Code

800W

Test Components:

Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Lead, Magnesium, Mercury, Potassium, Selenium, Silver, Sodium, Thallium, Zinc, Fluoride, Nitrate, Sulfate

Specimen Requirements

Minimum volume: 25 mL

Use Trace Water Bottle (100 mL) certified for trace element analysis and provided by Spectra, samples in other containers may be assayed with a disclaimer of "cannot be verified as certified for trace analysis testing."

(One full Trace Water Bottle is sufficient to perform 800W, 801W, 50,54,57 testing.)

Reference Range

0 up to AAMI maximum allowable

Chemical Contaminant	Testing Methodology - Southaven only	AAMI Max Allowable Levels (mg/L)	NxStage Source Water Specifications (mg/L)
Aluminum	ICP-MS	0.01	0.2
Total Chlorine	Not performed in lab; AAMI recommends to perform on site.	0.1	4.0
Copper	ICP-MS	0.1	1.3

Fluoride	IC	0.2	4.0
Lead	ICP-MS	0.005	0.015
Nitrate (as N)	IC	2	10
Sulfate	IC	100	250
Zinc	ICP-MS	0.1	5
Calcium	ICP-MS	2 (0.05 mmol/L)	No limit
Magnesium	ICP-MS	4 (0.15 mmol/L)	No limit
Potassium	ICP-MS	8 (0.2 mmol/L)	No limit
Sodium	ICP-MS	70 (3.0 mmol/L)	No limit
Antimony	ICP-MS	0.006	0.006
Arsenic	ICP-MS	0.005	0.01
Barium	ICP-MS	0.1	2
Beryllium	ICP-MS	0.0004	0.004
Cadmium	ICP-MS	0.001	0.005
Chromium	ICP-MS	0.014	0.1
Mercury	ICP-MS	0.0002	0.002
Selenium	ICP-MS	0.09	0.05
Silver	ICP-MS	0.005	0.1
Thallium	ICP-MS	0.002	0.002

Test Usage

Monitoring AAMI-recommended chemical contaminants for product water and source water of non-NxStage purification systems

Methodology

Ion Chromatography (IC), Inductively Coupled Plasma Mass Spectrometry (ICP-MS) and PC Titration, performed only at Spectra -Southaven, MS

Rejection Criteria

Presence of interference, quantity not sufficient (QNS), no or incorrect labels of sample containers or old specimens

Interferences

Sediments, color, odor

Turn Around Time

2 – 5 days

Test Setup

Mon-Sat

CPT Code

N/A

Specimen Stability

14 days

AAMI STANDARD TESTS**Alternate Name/Abbreviation**

Performed only at Spectra - Southaven, MS

Test Code

800W - WATER

Specimen Requirements

Trace water container

Other Requirements

- **AAMI Chemical Contaminant for Water**

Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Lead, Magnesium, Mercury, Potassium, Selenium, Silver, Sodium, Thallium, Zinc, Fluoride, Nitrates, Sulfates

- **pH Water**

pH Water, Resistivity, Conductivity

- **Iron Water**

- **Nickel Water**

- **Phosphorus Water**

- **AAMI Dialysate Analysis**

Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Lead, Magnesium, Mercury, Potassium, Selenium, Silver, Sodium, Thallium, Zinc, Fluoride, Nitrate, Sulfate

- **pH Dialysate Fluid**

pH Dialysate Fluid, Resistivity, Conductivity

Reference Range

Chemical contaminant	Testing Methodology - Southaven	Max Allowable Levels	UOM
Aluminum	ICPMS	0.01	mg/L
Total Chlorine	Not performed in lab; AAMI recommends to perform on site.	0.1	mg/L
Copper	ICPMS	0.1	mg/L
Fluoride	IC	0.2	mg/L
Lead	ICPMS	0.005	mg/L
Nitrate (as N)	IC	2	mg/L
Sulfate	IC	100	mg/L
Zinc	ICPMS	0.1	mg/L

Calcium	ICPMS	2 (0.05)	mmol (mg/dL)
Magnesium	CPMS	4(0.15)	mmol (mg/dL)
Potassium	CPMS	8(0.2)	mmol (mg/dL)
Sodium	CPMS	70(3.0)	mmol (mg/dL)
Trace Elements			
Antimony	ICPMS	0.006	mg/L
Arsenic	ICPMS	0.005	mg/L
Barium	ICPMS	0.1	mg/L
Beryllium	ICPMS	0.0004	mg/L
Cadmium	ICPMS	0.001	mg/L
Chromium	ICPMS	0.014	mg/L
Mercury	ICPMS	0.0002	mg/L
Selenium	ICPMS	0.09	mg/L
Silver	ICPMS	0.005	mg/L
Thallium	ICPMS	0.002	mg/L

Turn Around Time

2-5 days

Specimen Stability

14 days

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Notes

Performed at Spectra's reference laboratory. For additional information, visit <http://www.aruplab.com>
ABSOLUTE COLONY COUNT
Alternate Name/Abbreviation

Refer to Colony Count for details

ACID FAST (TB) CULTURE, OTHER

Alternate Name/Abbreviation

AFB Culture, Mycobacterial Culture, TB Culture

Performed at Spectra's reference laboratory. For additional test information, visit:

<http://www.aruplab.com>

Test Code

9308

Specimen Requirements

Collect specimen in sterile (orange container) and tighten screw cap securely. Place each specimen in an individual, sealed bag. Keep specimen at refrigerated temperature.

Reference Range

No growth

Test Usage

To isolate, identify, and determine antimicrobial sensitivity of Mycobacterium species

Methodology

Culture

Turn Around Time

6-8 weeks before reported as negative

Test Setup

Tue-Sat

LOINC Code

543-9

CPT Code

87116

ACTIVATED PTT

Alternate Name/Abbreviation

Partial Thromboplastin Time; PTT: Activated (APTT)

Test Code

252

Specimen Requirements

1 full light blue top tube (3.2% Sodium Citrate, whole blood)

Other Requirements

The fistula needle must be flushed thoroughly; draw blood culture bottles and tubes without additives prior to APTT tube

Reference Range

Lot Dependent. See patient clinical result report for Reference Range

Test Usage

1. Monitoring of heparin therapy
2. Screening for disorders of coagulation and platelet abnormalities

Methodology

Rockleigh-Electromagnetic clot detection

Southaven-Photo Optical

Rejection Criteria

Incomplete filling of tube, over filling

Interferences

Inadequate flushing of heparin from fistula, catheter

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

14979-9

CPT Code

85730

Notes

Results faxed or sent to client's printer the same day specimen is received

Specimen Stability

Refrigerated 2 days

ACTIVATED PTT, MID-TREATMENT

Alternate Name/Abbreviation

APTT

Test Code

252M

Specimen Requirements

1 full light blue top tube (citratd whole blood) **NOTE:** Must be labeled "MID-TREATMENT" (Refer to APTT for test information)

ACTIVATED PTT, POST**Alternate Name/Abbreviation**

APTT

Test Code

252P

Specimen Requirements

1 full light blue top tube (citratd whole blood) **NOTE:** Must be labeled "POST" (Refer to APTT for test information)

ALANINE AMINOTRANSFERASE**Alternate Name/Abbreviation**

See ALT/SGPT

ALBUMIN BCG, SERUM**Test Code**

115

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

3.5 - 5.2 g/dL

Exception Value

Tier 4 <2.0 > 6.0 g/dL

Test Usage

1. Evaluation of nutritional status
2. Monitoring of protein loss in dialysis patients

Methodology

Colorimetric

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

61151-7

CPT Code

82040

Specimen Stability

Refrigerated 7 days at 2-8°C

ALBUMIN, POST**Alternate Name/Abbreviation**

Not an orderable test for FMCNA clients

Test Code

115P

Specimen Requirements

0.5 mL Plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to Albumin for test information)

Specimen Stability

Refrigerated 5 days

URINE ALBUMIN**Alternate Name/Abbreviation**

Performed at Spectra's reference laboratory. For additional information, visit: <https://www.aruplab.com>

ALKALINE PHOSPHATASE**Test Code**

109

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

Male: 40 - 129 U/L

Female: 35 - 104 U/L

Exception Value

Tier 4 > 700 U/L

Test Usage

1. Aids in the diagnosis of bone disease and/or following its progression
2. Aids in the diagnosis of liver disease

Methodology

Colorimetric

Interferences

1. Hemolyzed specimen
2. Leaving the specimen at room temperature can lead to falsely elevated results

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

6768-6

CPT Code

84075

Specimen Stability

Refrigerated 7 days at 2-8°C

ALPHA FETOPROTEIN**Alternate Name/Abbreviation**

Performed at Spectra's reference laboratory. For additional test information, visit:

<http://www.aruplab.com>

ALT/SGPT**Alternate Name/Abbreviation**

Alanine Aminotransferase

Test Code

111

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

7 - 52 U/L

Exception Value

Tier 4 > 90 U/L

Test Usage

1. Aids in the diagnosis of liver disease
2. Serial measurements help track the course of hepatitis

Methodology

Kinetic

Interferences

Hemolyzed specimen

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

1742-6

CPT Code

84460

Specimen Stability

Refrigerated 7 days at 2-8°C

ALUMINUM**Alternate Name/Abbreviation**

AL

Test Code

507

Specimen Requirements

2.0 mL serum (Clear top tube)

Other Requirements

Do not centrifuge. Allow to clot 30-60 minutes before refrigeration

Reference Range

0 - 10 mcg/L

Exception Value

Tier 3 > 100 mcg/L

Tier 4 > 50 mcg/L

Test Usage

Monitoring of aluminum levels in order to detect/limit aluminum toxicity

Methodology

Inductively Coupled Plasma Mass Spectrometry (ICP-MS) at Southaven Lab; Atomic Absorption Furnace at Rockleigh Lab

Interferences

Lipemia and Hemolysis

Turn Around Time

5 days

Test Setup

Mon-Sat

LOINC Code

5574-9

CPT Code

82108

Specimen Stability

Refrigerated 10 days at 2-8°C

Aluminum, Dialysate**Alternate Name/Abbreviation**

Al Dialysate Fluid

Test Code

40F

Specimen Requirements

Minimum volume: 10 mL

Use Trace Water Bottle (100 mL) certified for trace element analysis and provided by Spectra

Reference Range

Not provided

Test Usage

Monitoring potential aluminum contamination in dialysate concentrate or acid concentrate from manufacturers

Methodology

Inductively Coupled Plasma Mass Spectrometry (ICP-MS), performed only at Spectra – Southaven, MS

Rejection Criteria

Quantity not sufficient (QNS), no or incorrect labels of sample containers or old specimens

Interferences

Dialysate concentrate or acid concentrated is diluted to 45 times in lab

Turn Around Time

2 – 5 days

Test Setup

Mon-Sat

LOINC Code

5572-3

CPT Code

N/A

Stability

14 days

AMYLASE**Alternate Name/Abbreviation**

Performed only at Spectra-Rockleigh, NJ

Test Code

135

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

28 - 100 U/L

Exception Value

Tier 3 > 500 U/L

Test Usage

Aids in the diagnosis of pancreatic disease

Methodology

Kinetic

Interferences

1. Hemolyzed specimen
2. Lipemic specimen (may give falsely low results)

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

1798-8

CPT Code

82150

Specimen Stability

Refrigerated 7 days at 2-8°C

ANAEROBIC CULTURE**Alternate Name/Abbreviation**

Includes Gram Stain

Test Code

769

Specimen Requirements

Collect specimen in a blue swab. Keep specimen at ambient temperature. Fluids require sterile container. Keep refrigerated; transport with ice packs. Also indicate source

Reference Range

No anaerobes isolated

Test Usage

To isolate, identify possible anaerobic pathogens in body fluid/aspirates or deep wounds

Methodology

Culture

Turn Around Time

3 days; interim reports are issued each day

Test Setup

M-Sun

CPT Code

87075

Specimen Stability

3 days

ANTI-HB CORE, IgM**Alternate Name/Abbreviation**

See Hepatitis B Virus Core Antibody IgM

ANTI-HB CORE, TOTAL**Alternate Name/Abbreviation**

See Hepatitis B Virus Core Total

ANTI-HBe**Alternate Name/Abbreviation**

See Hepatitis Be Virus Antibody

APOLIPOPROTEIN A-1**Notes**

Performed at Spectra's reference laboratory. For additional information, visit <http://www.aruplab.com>

APOLIPOPROTEIN B**Notes**

Performed at Spectra's reference laboratory. For additional information, visit <http://www.aruplab.com>

APTT**Alternate Name/Abbreviation**

See Activated PTT

ASPARTATE AMINOTRANSFERASE**Alternate Name/Abbreviation**

See AST/SGOT

AST/SGOT**Alternate Name/Abbreviation**

Aspartate Aminotransferase

Test Code

110

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

13 - 39 U/L

Exception Value

Tier 4 > 90 U/L

Test Usage

1. Serial monitoring of liver damage 2. As an indication of other tissue damage

Methodology

Kinetic

Interferences

Hemolysis may cause falsely elevated levels

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

1920-8

CPT Code

84450

Specimen Stability

Refrigerated 7 days at 2-8°C

B-TYPE NATRIURETIC PEPTIDE**Notes**

Performed at Spectra's reference laboratory. For additional information, visit <http://www.aruplab.com>

BETA-2 MICROGLOBULIN**Alternate Name/Abbreviation**

B2M

Performed only at Spectra-Rockleigh, NJ

Test Code

555

Specimen Requirements

1.0 mL serum (SST Gel Tube)

Reference Range

1.0 - 1.8 mg/L

Test Usage

1. Evaluation of renal disease
2. Evaluation of AIDS progression

Methodology

Turbidimetric

Interferences

Administration of radioactive isotopes within one week prior to the test

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

1952-1

CPT Code

82232

Specimen Stability

Refrigerated 7 days at 2-8°C

BICARBONATE**Test Code**

106

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Do not open tube or expose to air

Reference Range

See patient clinical result report for reference range

Exception Value

Tier 3 < 12 > 32 mEq/L

Tier 4 < 20 > 29 mEq/L

Test Usage

Assessment of acid-base balance

Methodology

Enzymatic

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

1963-8

CPT Code

82374

Specimen Stability

Refrigerated 7 day at 2-8°C

Note: Bicarbonate cannot be added onto an existing sample

BICARBONATE, DIALYSATE FLUID**Test Code**

106W

Specimen Requirements

8.0 mL aliquot of dialysate fluid (Clear top round bottom tube)

Test Usage

Verification of bicarbonate level of dialysate fluid

Methodology

Enzymatic

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

12514-6

CPT Code

N/A

Specimen Stability

5 days

Bicarbonate cannot be added onto an existing sample

BICARBONATE, POST**Test Code**

106P

Specimen Requirements

0.5 mL plasma Green Post Tube (Do not open tube or expose to air)

NOTE: Tube must be labeled "POST" (Refer to Bicarbonate for test information)**LOINC Code**

82374

Specimen Stability

5 days

Bicarbonate cannot be added onto an existing sample

BILIRUBIN, DIRECT**Alternate Name/Abbreviation**

Conjugated Bilirubin

Test Code

138

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Protect specimen from light

Reference Range

0.0 - 0.25 mg/dL

Test Usage

1. Along with total bilirubin, provides a means to determine indirect (unconjugated)
2. Aids in the diagnosis of obstructive or hepatic jaundice

Methodology

Colorimetric

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

1968-7

CPT Code

82248

Specimen Stability

Southaven: Refrigerated 7 days at 2-8°C

Rockleigh: Refrigerated 5 days at 2-8°C

BILIRUBIN, INDIRECT (CALC)**Alternate Name/Abbreviation**

Unconjugated Bilirubin

Test Code

141

Specimen Requirements

1.0 mL serum (SST Gel Tube)

Other Requirements

Calculated from Total and Direct Bilirubin

Reference Range

0.0 - 1.2 mg/dL

Methodology

Calculation: Indirect Bilirubin = Total Bilirubin - Direct Bilirubin

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

1971-1

CPT Code

Calculation

BILIRUBIN, TOTAL**Alternate Name/Abbreviation**

Direct and Indirect Bilirubin: Conjugated and Unconjugated Bilirubin

Test Code

113

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Protect specimen from light

Reference Range

0.1 - 1.2 mg/dL

Test Usage

1. Assessment of liver function
2. Differential diagnosis of liver diseases
3. Along with direct bilirubin, provides a means to determine indirect (unconjugated) bilirubin

Methodology

Colorimetric

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

1975-2

CPT Code

82247

Specimen Stability

Southaven: Refrigerated 7 days at 2-8°C

Rockleigh: Refrigerated 5 days at 2-8°C

BLOOD CULTURE**Test Code**

750 - First set

750A - Second set

750B - Third set

Specimen Requirements

Two blood culture bottles

Other Requirements

A blood culture consists of an aerobic and anaerobic bottle collected from the same source at the same time. Inoculate each bottle with at least 10 mL of blood. Gram stains will also be performed from positive cultures only. Also indicate source

Reference Range

No aerobic or anaerobic growth after 5 days of incubation **NOTE:** Blood cultures for set 2 and/or set 3 are available so all results are sent to one patient report. Please ensure the proper label is on the sample bottles.

Blood culture- 1st set - order as 750 and use label with prefix 60 for aerobic and anaerobic bottles for set#1.

Blood culture- 2nd set - order test 750A on the same requisition as set #1 and use labels with prefix 70 to label aerobic and anaerobic bottles for set #2.

Blood culture- 3rd set - order test 750B on the same requisition as set #2 and 3 and use labels with prefix 85 to label aerobic and anaerobic bottles for set #3.

There is no longer a need to send multiple sets of Blood cultures under separate requisition numbers.

Alert Value

Tier 1 All Positives

Test Usage

To isolate, identify, and determine antimicrobial sensitivity. This aids in the diagnosis of suspected sepsis, fever of unknown origin (FUO), endocarditis, etc.

Methodology

Culture

Turn Around Time

5 days; interim reports are issued each day in addition to whenever cultures are positive

Test Setup

M-Sun

CPT Code

87040

Specimen Stability

5 days

BODY FLUID CULTURE**Alternate Name/Abbreviation**

Includes Gram Stain

Test Code

758

Specimen Requirements

Collect specimen in sterile container, orange top. Keep refrigerated; transport with ice packs. Also indicate source

Reference Range

No growth

Alert Value

Tier 2 All Positives

Test Usage

To isolate, identify, and determine antimicrobial sensitivity of potential pathogens from a body fluid culture

Methodology

Culture

Turn Around Time

3 days; interim reports are issued each day

Test Setup

M-Sun

CPT Code

87071, 87073

Specimen Stability

2 days

BUN**Alternate Name/Abbreviation**

Blood Urea Nitrogen

Test Code

101

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

6 - 19 mg/dL

Test Usage

1. Used with Creatinine to monitor dialysis efficacy and/or assess residual renal function
2. Assessment of nutritional status (adequacy of protein intake)

Methodology

Enzymatic

Interferences

Hemolysis may cause falsely elevated results

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

3094-0

CPT Code

84520

Specimen Stability

Refrigerated 7 days at 2-8°C

BUN, POST**Alternate Name/Abbreviation**

Blood Urea Nitrogen, Post

Test Code

150

Specimen Requirements

0.5 mL plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to BUN for test information)

Reference Range

6 - 19 mg/dL

Test Usage

Assessment of dialysis efficacy

LOINC Code

11064-3

CPT Code

84520

Specimen Stability

Refrigerated 5 days

BUN/CREATININE RATIO (CALC)**Test Code**

128

Specimen Requirements

1.0 mL serum (SST Gel Tube)

Other Requirements

Calculated using BUN and Creatinine values

Reference Range

10-20

Test Usage

Assists in the interpretation of lab values in assessing dialysis efficacy and/or residual renal function

Methodology

Calculation: BUN/Creatinine Ratio = Bun ÷ Creatinine

Interferences

Hemolysis can alter results

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

3097-3

CPT Code

Calculation

BUN/CREATININE RATIO POST (CALC)**Alternate Name/Abbreviation**

0.5 mL plasma drawn post-dialysis (Gold Post Tube)

Note: Must be labeled "POST"

(Refer to BUN/Creatinine for additional test information)

Test Code

128P

CPT Code

Calculation

C-REACTIVE PROTEIN, WIDE RANGE**Alternate Name/Abbreviation**

CRP, WIDE RANGE

Performed only at Spectra – Rockleigh, NJ

Test Code

147W

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

0-2.4 mg/L; low/high reference range = 0.0-30.0 mg/L

Exception Value

Tier 4 > 30 mg/L

Test Usage

1. Elucidation of the cause of non-responsiveness to erythropoietin

2. Monitoring of inflammation, infection or tissue injury

Methodology

Turbidimetric

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

1988-5

CPT Code

86140

Specimen Stability

Refrigerated 7 days at 2-8°C

CALCIUM, CORRECTED (CALC)**Test Code**

129

Specimen Requirements

0.5 mL serum (SST Gel Tube); not orderable; results automatically provided when Calcium and Albumin are ordered

Reference Range

8.4 - 10.2 mg/dL

Exception Value

< 8.0 or > 11.0 mg/dL

Alert Value

<6.0 or > 13.5 mg/dL

Test Usage

Assessment of calcium status and/or hyperparathyroidism

Methodology

Calculation: Calcium (corrected) = Calcium (measured) + (4-albumin) x 0.8

Interferences

Hemolysis may result in falsely elevated levels

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

29265-6

CPT Code

Calculation

CALCIUM, IONIZED**Test Code**

131

Specimen Requirements

1.0 mL serum (SST Gel Tube)

Other Requirements

Do not open tube or expose to air

Reference Range

4.6 - 5.4 mg/dL

Exception Value

Tier 3 < 3.0 > 7.0 mg/dL

Test Usage

1. Evaluation of hypoparathyroidism and hyperparathyroidism

Methodology

Ion-Selective Electrode (ISE)

Interferences

Prolonged exposure of the serum to air causes increase in pH that causes increased ionized calcium level

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

17864-0

CPT Code

82330

Specimen Stability

Refrigerated 7 days at 2-8°C

NOTE: Ionized calcium cannot be added onto an existing sample

CALCIUM, POST**Test Code**

107P

Specimen Requirements

0.5 mL plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to Calcium for test information)

LOINC Code

51950-4

CPT Code

82310

Specimen Stability

Refrigerated 5 days

CALCIUM, SERUM TOTAL

Test Code

107

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Fasting specimen preferred

Reference Range

See patient clinical result report for reference range

Exception Value

Tier 3 < 7.5 > 10.2 mg/dL - Rockleigh

Tier 3 < 7.5 > 10.4 mg/dL – Southaven

Alert Value

Tier 2 < 7.0 > 12 mg/dL

Test Usage

Assessment of calcium status and/or hyperparathyroidism

Methodology

Colorimetric

Interferences

Hemolysis may result in falsely elevated levels

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

17861-6

CPT Code

82310

Specimen Stability

Refrigerated 7 days at 2-8°C

CALCIUM, URINE RANDOM

Alternate Name/Abbreviation

CaURan

Test Code

107U

Specimen Requirements

Clear Urine Random

Other Requirements

None

Reference Range

None

Exception Value

N/A

Alert Value

N/A

Test Usage

Diagnosis and treatment of parathyroid disease, a variety of bone diseases, chronic renal disease and tetany.

Methodology

Colorimetric

Interferences

Turbidity

Turn Around Time

24hrs

Test Setup

Daily

LOINC Code

17862-4

CPT Code

82310

Confirmatory Test

N/A

Specimen Stability

Refrigerated 7 days at 2-8° C

CALCIUM/PHOSPHORUS PRODUCT (CALC)

Test Code

125

Specimen Requirements

1.0 mL serum (SST Gel Tube)

Refer to Calcium/Phosphorus for additional test information

Other Requirements

Calculated from Albumin, Calcium and Phosphorus

Reference Range

< 55

Test Usage

1. Monitoring of calcium levels
2. Monitoring of patient compliance

Methodology

Calculation: $\text{Ca X Phos Product} = \text{Calcium} \times \text{Phosphorus}$

Interferences

Hemolyzed specimen; cells in serum

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

13454-4

CPT Code

Calculation

CALCIUM/PHOSPHORUS PRODUCT, CORRECTED (CALC)

Alternate Name/Abbreviation

Refer to Calcium/Phosphorus for test information

Test Code

129P

Methodology

Calculation: $\text{Corrected Ca X Phos Product} = \text{Corrected Calcium} \times \text{Phosphorus}$

CALCIUM/PHOSPHORUS PRODUCT, POST

Alternate Name/Abbreviation

Refer to Calcium/Phosphorus Product for test information

Test Code

125P

Specimen Requirements

0.5 mL plasma (Gold Post Tube)

NOTE: Must be labeled "POST"

(Refer to Calcium/Phosphorus for additional test information)

CPT Code

Calculation

CATHETER EXIT SITE CULTURE

Alternate Name/Abbreviation

Includes Gram Stain

Test Code

751

Specimen Requirements

Collect specimen in a blue swab. Keep specimen at ambient temperature

Reference Range

No growth

Test Usage

To isolate, identify, and determine antimicrobial sensitivity of potential pathogens from a catheter site

Methodology

Culture

Turn Around Time

3 days; interim reports are issued each day

Test Setup

M-Sun

CPT Code
87070
Specimen Stability
3 days

CD4 ABSOLUTE AND CD4 PERCENT

Alternate Name/Abbreviation
Performed at Spectra's reference laboratory. For additional test information, visit:
<http://www.aruplab.com>

CELL COUNT WITH DIFFERENTIAL

Test Code
752
Specimen Requirements
Collect specimen in full Lavender Top Tube. Keep specimen at refrigerated temperature
Reference Range
Description: Clear, Colorless
WBC Count: 0 - 50/mm³
WBC differential: Mononuclear cells: 75 - 100%
Polymorphonuclear cells: 0 - 35%
Exception Value
Tier 3 > 50 mm³
Alert Value
Tier 2 > 100 mm³
Test Usage
Evaluation of PD Fluid for the presence of cellular elements, differential of WBC, and for physical appearance
Methodology
Microscopic and macroscopic examination/Hemocytometer counting chamber
Turn Around Time
1 day
Test Setup
Mon-Sat
CPT Code
89051
Specimen Stability
3 days at 2-8°C

CELL COUNT WITHOUT DIFFERENTIAL

Test Code
749
Specimen Requirements
Collect specimen in full Lavender Top Tube. Keep specimen at refrigerated temperature
Reference Range
Description: Clear, Colorless
WBC Count: 0 - 50/mm³
Exception Value
Tier 3 > 50 mm³
Alert Value
Tier 2 > 100 mm³
Test Usage
Evaluation of PD Fluid for the presence of cellular elements and for physical appearance
Methodology
Microscopic and macroscopic examination/Hemocytometer counting chamber
Turn Around Time
1 day
Test Setup
Mon-Sat
CPT Code
89050
Specimen Stability
3 days at 2-8°C

CHEMICAL ANALYSES ON DIALYSATE

Test Code

91C - Dialysate Fluid Panel (Na, K, Cl, Ca)
190 - Dialysate Fluid Electrolytes (Na, K, Cl, Bicarbonate, Ca)
91 - Dialysate Fluid Panel (Na, K, Cl, Mg, Ca, Gluc, Bicarbonate)

Specimen Requirements

Collect specimen in clear top round bottom tube

Other Requirements

Refrigerate specimen immediately after collection (Refer to each individual serum test for detailed information)

Test Setup

Mon-Sat

LOINC Code

Bicarbonate: 12514-6
Calcium: 1998-4
Chloride: 2071-9
Glucose:2343-2
Magnesium: 2595-7
Potassium: 2820-9
Sodium: 2949-6

CPT Code

N/A

CHLORIDE

Test Code

105

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

96 - 108 mEq/L

Test Usage

Used with other electrolytes to evaluate electrolyte acid-base balance

Methodology

Ion-Selective Electrode (ISE)

Interferences

Hemolyzed specimen

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2075-0

CPT Code

82435

Specimen Stability

Refrigerated 7 days at 2-8°C (unopened)

CHLORIDE, POST

Alternate Name/Abbreviation

Refer to Chloride for additional test information

Test Code

105P

Specimen Requirements

0.5 mL plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to Chloride for test information)

Reference Range

96 - 108 mEq/L

Test Usage

Used with other electrolytes to evaluate electrolyte acid-base balance

LOINC Code

54369-4

Specimen Stability

Refrigerated 5 days (unopened)

CHLORIDE, URINE RANDOM

Alternate Name/Abbreviation

CIURan

Test Code

105U

Specimen Requirements

Clear Urine Random

Other Requirements

None

Reference Range

None

Exception Value

N/A

Alert Value

N/A

Test Usage

Electrolytes serve to maintain osmotic pressure and hydration of body fluid compartments, proper body pH and regulation of heart and muscle functions

Methodology

ISE

Interferences

Turbidity

Turn Around Time

24hrs

Test Setup

Daily

LOINC Code

2078-4

CPT Code

82436

Confirmatory Test

N/A

Specimen Stability

Refrigerated 7 days at 2-8° C

CHOLESTEROL, TOTAL

Test Code

118

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

1. Fasting Specimen Preferred
2. Fasting Overnight (12-14 hours)

Reference Range

- < 200 mg/dL: Desirable
- 200 - 239 mg/dL: Borderline
- ≥ 240 mg/dL: High Risk

Test Usage

Aids in the assessment of cardiovascular risk

Methodology

Enzymatic

Interferences

- Hemolyzed specimen;
- Venipuncture immediately after or during the administration of Metamizole (Dipyrone) may lead to falsely low results for Cholesterol, Total.
- Venipuncture should be performed prior to the administration of Metamizole.

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2093-3

CPT Code

82465

Specimen Stability

Refrigerated 7 days at 2-8°C

CHOLESTEROL/HDL RATIO (CALC)**Alternate Name/Abbreviation**

Chol/HDL ratio

Refer to individual test for additional information

Test Code

118H

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

0-4.5 (Standard)

Methodology

Calculation: Cholesterol/HDL Ratio = Cholesterol ÷ HDL

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

9830-1

CPT Code

Calculation

CHOLESTEROL/TRIGLYCERIDE RATIO (CALC)**Alternate Name/Abbreviation**

CHOL/TRIG ratio

Refer to individual test for additional information

Test Code

118T

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Methodology

Calculation: Cholesterol/Triglyceride Ratio = Cholesterol ÷ Triglyceride

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2096-6

CPT Code

Calculation

CHr**Alternate Name/Abbreviation**

See Reticulocyte Hemoglobin Content

COLONY COUNT**Alternate Name/Abbreviation**

Sources: Water, Dialysate, Bicarbonate

Test Code

771 - DIALYSATE

773 - BICARBONATE

774 - WATER

Specimen Requirements

Collect in a sterile cup with integrated sampling device then transfer sample to a clear top round bottom tube

Note: Label the tube with the appropriate label to properly define the source.

Other Requirements

Refrigerate sample immediately after collection and for at least 2 hours prior to shipment to the laboratory. Ship sample with climatized ice packs. Remove ice packs from freezer 1 hour prior to shipment and allow ice packs to sit at room temperature (climatize). Ship sample on the same day of collection whenever possible. For optimal results, samples must be RECEIVED NEXT DAY after collection. If collected on a Sunday, the specimen must be refrigerated until able to ship on Monday. Do not package until ready for courier pickup.

Reference Range

AAMI Standards: Acceptable: < 200 CFU/mL

Action Level: ≥ 50 CFU/mL

Exception Value

≥ 50 CFU/mL

Alert Value

≥ 200 CFU/mL

Test Usage

Regular monitoring of the microbiological quality of water and dialysate

Methodology

Heterotrophic Plate Count (HPC)- spread plate technique

Rejection Criteria

1. Sample received without ice packs
2. Sample is more than 2 days old
3. Incorrect packaging materials used
4. Inappropriate specimen container used
5. Frozen sample received

Turn Around Time

2 days

Specimen Stability

2 days

COMPLETE BLOOD COUNT (CBC)**Alternate Name/Abbreviation**

See Hemogram

CREATINE KINASE**Alternate Name/Abbreviation**

CPK, Creatine Phosphokinase

Test Code

136

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

30 - 223 U/L

Test Usage

Detection of acute myocardial infarct (AMI) or skeletal muscle damage or central nervous system damage

Methodology

Kinetic

Interferences

Hemolyzed specimen

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2157-6

CPT Code

82550

Specimen Stability

Refrigerated 7 days at 2-8°C

CREATININE**Test Code**

102

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

0.6-1.3 mg/dL

Exception Value

Tier 3 ≤ 2.0 mg/dL

Tier 4 < 3.1 mg/dL

Test Usage

1. Aids in the determination of dialysis efficacy
2. As an indicator of renal function

Methodology

Kinetic

Interferences

Certain drugs may cause falsely elevated levels

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2160-0

CPT Code

82565

Specimen Stability

Refrigerated 7 days at 2-8°C

CREATININE CLEARANCE**Test Code**

622C - Creatinine Clearance

622Z - Creatinine Clearance, Normalized

Specimen Requirements

0.5 mL serum and a Clear top round bottom tube containing a well-mixed sample of urine from the 24-hour collection

Reference Range

Creatinine Clearance, Normalized

Male 94.0-122.0 mL/min

Female 77.0-94.0 mL/min

Test Usage

Used to assess kidney function

Methodology

Enzymatic

Interferences

Gross Hemolysis

Turn Around Time

1 day

Test Setup

M-Sat

LOINC Code

2164-2

Notes**Calculation:**

CREATININE CLEARANCE, NORMALIZED

= (URINE CREATININE VALUE/SERUM CREATININE VALUE) * (URINE VOLUME/ (URINE COLLECTION TIME * 60)) * (1.73/BSA)

CREATININE REDUCTION RATIO (CALC)**Alternate Name/Abbreviation**

CRR

Test Code

170Z

Specimen Requirements

0.5 mL serum (SST Gel Tube) drawn pre-dialysis

0.5 mL serum (Gold Post Tube) drawn post-dialysis

Other Requirements

Calculated from pre and post-dialysis Creatinine values

Reference Range

50.0 - 80.0

Test Usage

Provides an indication of hemodialysis adequacy

Methodology

Calculation: $CRR\% = 100 \times (1 - \text{Post-dialysis Creatinine} / \text{Pre-dialysis Creatinine})$

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

59834-2

CPT Code

Calculation

CREATININE, POST**Test Code**

153

Specimen Requirements

0.5 mL plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to Creatinine for test information)**Reference Range**

0.6-1.3 mg/dL

Test Usage

Assessment of dialysis efficacy (Refer to Creatinine for test information)

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

11041-1

CPT Code

82565

Specimen Stability

Refrigerated 5 days

CREATININE, URINE RANDOM**Test Code**

102U

Specimen Requirements

5.0 mL of a random urine collection (Clear top round bottom tube)

Other Requirements

1. Urine should be kept refrigerated after collection. Failure to refrigerate the specimen may yield falsely low results
2. Certain drugs may cause falsely elevated or decreased results

Test Usage

As an indicator of renal function

Methodology

Kinetic

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2161-8

CPT Code

82570

Specimen Stability

Refrigerated 5 days

CREATININE, URINE TIMED**Alternate Name/Abbreviation**

Creatinine, 24-Hour Urine

Test Code

157G

Specimen Requirements

8.0 mL of a 24-hr urine collection (Clear top round bottom tube)

Other Requirements

1. Urine should be kept refrigerated during collection
2. Total urine volume required

Reference Range

Male 0.7-1.8 g/24 hr

Female 0.5-1.6 g/24 hr

Test Usage

As an indicator of renal function

Methodology

Kinetic

Interferences

1. Failure to collect the entire 24-hour urine specimen will lead to a falsely low result
2. Failure to refrigerate the specimen may yield a falsely low result
3. Certain drugs may cause falsely elevated or decreased results

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2162-6

CPT Code

82570

Specimen Stability

Refrigerated 6 days at 2-8°C

CYCLOSPORINE**Alternate Name/Abbreviation**

Performed at Spectra's reference laboratory. For additional information, visit <http://www.aruplab.com>

DIALYSATE FLUID ELECTROLYTES**Alternate Name/Abbreviation**

(Includes Sodium, Potassium, Chloride, Bicarbonate, Calcium)

Test Code

190

Specimen Requirements

Aliquot of dialysate fluid in a Clear top round bottom tube

Test Usage

Verification of electrolyte concentrations in dialysate fluid prior to patient use

Methodology

Enzymatic, Ion-selective electrode (ISE)

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

Bicarbonate: 12514-6

Calcium: 1998-4

Chloride: 2071-9

Potassium: 2820-9

Sodium: 2949-6

CPT Code

N/A

Specimen Stability

5 days

DIGOXIN**Test Code**

414

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Specimen should be drawn 6 to 8 hours after last dose

Exception Value

Tier 3 > 2.0 ng/mL

Alert Value

Tier 2 > 3.0 ng/mL

Test Usage

Monitoring for therapeutic dosing during digoxin therapy

Methodology

Chemiluminescence

Interferences

1. Serum potassium, calcium or magnesium imbalances may falsely elevate results 2. Gross hemolysis

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

10535-3

CPT Code

80162

Therapeutic Range

0.8 - 2.0 ng/mL

Specimen Stability

Refrigerated 7 days at 2-8°C

EAR CULTURE**Test Code**

778

Specimen Requirements

Collect specimen in a blue swab. Keep specimen at ambient temperature

Reference Range

No Growth

Test Usage

To isolate, identify, and determine antimicrobial sensitivity of potential pathogens from an ear site

Methodology

Culture

Turn Around Time

2 days

Test Setup

M-Sun

CPT Code

87070

Specimen Stability

3 days

eGFR 2021 CKD-EPI Refit**Alternate Name/Abbreviation**

Estimated Glomerular Filtration Rate - 2021 Chronic Kidney Disease Epidemiology Collaboration Creatinine Equation Refit Without Race Variable

Test Code

173E

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Calculated from serum Creatinine value. On the requisition, indicate patient age and gender

Reference Range

Estimated GFR is expressed in mL/min/1.73 m²

Test Usage

Helps health care providers detect CKD among patients with risk factors - diabetes, hypertension, cardiovascular disease, or family history of kidney disease. eGFR 2021 CKD-EPI Refit may also be used to monitor patients already diagnosed with CKD. This calculation no longer includes a variable for race, as recommended by the National Kidney Foundation-American Society of Nephrology (NKF-ASN) Task Force on Reassessing the Inclusion of Race in Diagnosing Kidney Disease. This calculation is not intended to assess resumption of renal function in patients undergoing dialysis for acute kidney injury. The appropriate test for assessment of renal recovery is urine for Creatinine Clearance.

Methodology

$$eGFR_{Cr} = 142 \times \min(S_{Cr}/\kappa, 1)^\alpha \times \max(S_{Cr}/\kappa, 1)^{-1.200} \times 0.9938^{Age} \times 1.012 [if female]$$

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

62238-1

CPT Code
Calculation

ENDOTOXIN LAL

Alternate Name/Abbreviation

Sources: Water, Dialysate, Bicarbonate

Test Code

851B – Bicarbonate

851D – Dialysate

851C – Dialysate Concentrate

851 - Water

Specimen Requirements

Collect in a sterile cup with integrated sampling device then transfer sample to a clear top vacutainer tube without additive. **Note:** Label the tube with the appropriate label to properly define the source.

Other Requirements

Refrigerate specimen immediately for at least 2 hours prior to shipment and allow ice packs to sit at room temperature (climatize). Ship sample on the same day of collection whenever possible. For optimal results, samples must be RECEIVED NEXT DAY after collection. If collected on a Sunday, the specimen must be refrigerated until able to ship on Monday. Do not package until ready for courier pick up.

Reference Range

AAMI Standards: Acceptable: < 2.0 EU/mL

Action Level: ≥ 1.0 EU/mL

Exception Value

≥ 1.0 EU/mL

Alert Value

≥ 2.0 EU/mL

Test Usage

Regular monitoring of the microbiological quality of water and dialysate

Methodology

Quantitative Kinetic Chromogenic

Rejection Criteria

1. Sample received without ice packs
2. Sample is more than 2 days old
3. Incorrect packaging materials used
4. Inappropriate specimen container used
5. Frozen sample received

Turn Around Time

24 hours

Test Setup

Mon-Sat

Specimen Stability

2 days

ERYTHROCYTE SEDIMENTATION RATE

Alternate Name/Abbreviation

Sedimentation Rate, SED RATE, ESR

Test Code

212

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood) **NOTE:** One tube is sufficient for all hematology tests

Reference Range

Male:

0 - 15 mm/hr thru 49 years

0 - 20 mm/hr > 49 years

Female:

0 - 20 mm/hr thru 49 years

0 - 30 mm/hr > 49 years

Test Usage

Aids in the detection of the acute-phase reaction in inflammation and infection

Methodology

Westergren, Modified

Interferences

1. Hemolyzed specimen
2. Clotted specimen
3. Heparin causes falsely increased results

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

4537-7

CPT Code

85651

Specimen Stability

2 days

EYE CULTURE**Test Code**

779

Specimen Requirements

Collect specimen in a blue swab. Keep specimen at ambient temperature

Other Requirements

Gram stain included

Reference Range

No Growth

Test Usage

To isolate, identify, and determine antimicrobial sensitivity of potential pathogens from an eye site

Methodology

Culture

Turn Around Time

2 days

Test Setup

M-Sun

CPT Code

87070

Specimen Stability

3 days

Fast Peritoneal Equilibration Test**Alternate Name/Abbreviation**

Fast PET

Test Code

21

Specimen Requirements

Serum Glucose and Creatinine at 4 hours (SST Gel Tube)

Dialysate Glucose and Creatinine at 4 hours (Clear top round bottom tube labeled 4 hours)

Other Requirements

Steps for performing PET

Step 1: 8-12 hours "overnight" 2 L, 2.5% dextrose dwell

Step 2: Prepare 2 L, 2.5% dextrose solution

Step 3: Drain "overnight" dwell. If submitting sample, collect 8.5 mL PD Fluid in Yellow Conical Tube. **Label Timed PD Fluid**Step 4: Infuse fresh solution. 400 mL per 2 minutes. **Note 0 hour dwell.**Step 5: Collect 8.5 mL PD Fluid in Yellow Conical Tube at 0 hour dwell time. **Label PD Fluid 0 hr**Step 6: Collect 8.5 mL PD Fluid in Yellow Conical Tube at 2 hour dwell time. **Label PD Fluid 2 hr**

Step 7: Collect and spin SST at 2 hour dwell time.

Step 8: Drain exchange at 4 hour dwell time. Record volume.

Step 9: Collect 8.5 mL PD Fluid in Yellow Conical Tube from 4 hour dwell. **Label PD Fluid 4 hr**

Step 10: Refrigerate and ship samples.

Methodology

Fast PET Calculations

Step 1: Plot 4 hr Peritoneal Dialysate Glucose to determine **Glucose Transport Classification**

4 hr D/P = 4 hr Peritoneal Dialysate Fluid Creatinine/ Serum Creatinine

This determines Creatinine Transport Classification

Step 2: Additional Patient Solute Transport may be obtained by plotting the Post PET Drain Volume.

Turn Around Time

2 days

Test Setup

M-Sat

FERRITIN

Test Code

556

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

Male: 22 - 322 ng/mL

Female: 10 - 291 ng/mL

Test Usage

1. Assessment of a patient's iron stores
2. Aids in the differential diagnosis of anemia

Methodology

Chemiluminescence

Interferences

1. Gross hemolysis
2. Gross lipemia

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

2276-4

CPT Code

82728

Specimen Stability

Refrigerated 7 days at 2-8°C

FOLATE, RBC

Alternate Name/Abbreviation

Performed only at Spectra - Rockleigh, NJ

Test Code

376M

Specimen Requirements

2 full Lavender Top Tubes (EDTA whole blood)

Other Requirements

1. Gently invert both tubes
2. Immediately freeze one lavender tube; ship frozen
3. Store and ship the second full lavender tube refrigerated

Reference Range

280-791 ng/mL

Test Usage

1. Detection of folic acid deficiency
2. Evaluation of anemia/response to therapy

Methodology

Chemiluminescence

Interferences

Bacterial contamination may invalidate results

Turn Around Time

2 days

Test Setup

Tue-Fri

LOINC Code

2283-0

CPT Code

82747

Specimen Stability

Refrigerated 3 days for Hematocrit

Frozen 2 months for Folate

FOLATE, SERUM

Alternate Name/Abbreviation

Folic Acid

Test Code

375

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

1. Fasting specimen preferred
2. Protect specimen from light
3. Refrigerate

Reference Range

5.4 - 24.0 ng/mL

Test Usage

1. Detection of folic acid deficiency
2. Evaluation of anemia/response to therapy

Methodology

Chemiluminescence

Interferences

1. Hemolysis falsely elevates results
2. Specimen not protected from light

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2284-8

CPT Code

82746

Specimen Stability

Refrigerated 5 days at 2-8°C

FOLLICLE STIMULATING HORMONE**Alternate Name/Abbreviation**

Performed at Spectra's reference laboratory. For additional test information, visit:

<http://www.aruplab.com>

FRUCTOSAMINE, SERUM**Alternate Name/Abbreviation**

Performed at Spectra's reference laboratory. For additional information, visit <http://www.aruplab.com>

FUNGAL CULTURE (BLOOD ONLY)**Test Code**

777

Specimen Requirements

This culture consists of an aerobic and anaerobic bottles collected from the same source at the same time. Inoculate each bottle with at least 10 mL of blood. Grams stains performed on positive cultures only. Please indicate source.

Reference Range

No fungi isolated

Test Usage

To isolate and identify yeast and rapid-growing fungi from a blood culture specimen.

Methodology

Culture

Turn Around Time

5 Days; Interim reports will be issued at 24 hours, 2 days, 3 days, 4 days, 5 days or whenever the cultures are positive.

Test Setup

Mon-Sun

CPT Code

87103

Specimen Stability

5 days

FUNGAL CULTURE (MOLD) PD FLUID**Test Code**

742

Specimen Requirements

Collect at least 3 mL of sample in a clear top tube. Keep specimen at ambient temperature

Reference Range

No fungus isolated after 4 weeks of incubation

Test Usage

To isolate and identify slow-growing fungi from a culture specimen

Methodology

Culture

Turn Around Time

28 days; interim reports will be issued at 48 hours, 1 week, 2 weeks, 3 weeks or whenever the cultures are positive

Test Setup

Mon-Sun

CPT Code

87102-Fungus Isolation Culture

Specimen Stability

3 days

GAMMA GLUTAMYL TRANSFERASE**Alternate Name/Abbreviation**

GGT, GGTP

Test Code

133

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Fasting specimen preferred; patients should refrain from alcohol for 24 hours prior to the test

Reference Range

Male: 8 - 61 U/L

Female: 5 - 36 U/L

Test Usage

Evaluation of progression of liver disease and hepatic metastasis

Methodology

Kinetic

Interferences

Hemolyzed specimen

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2324-2

CPT Code

82977

Specimen Stability

Refrigerated 7 days at 2-8°C

GC (GONORRHEA) CULTURE**Alternate Name/Abbreviation**

Culture for GC only, Gonorrhea Culture, JEMBEC Culture

Test Code

768

Specimen Requirements

Collect specimen in a blue swab. Keep specimen at ambient temperature OR, collect in a sterile container, orange top. Keep refrigerated; transport with ice packs. Also indicate source

Reference Range

No Neisseria gonorrhea isolated

Alert Value

Tier 4 All Positives

Test Usage

To isolate and identify gonorrhea from a culture specimen

Methodology

Culture

Turn Around Time

2 days

Test Setup

M-Sun

CPT Code

87081

Specimen Stability

24 hours

GENITAL CULTURE**Test Code**

767

Specimen Requirements

Collect specimen in a blue swab. Keep specimen at ambient temperature.

Reference Range

Normal genital flora

Test Usage

To isolate, identify, and determine sensitivity of potential pathogens from the genital area. Aids in the diagnosis of suspected genital infection (not gonorrhea)

Methodology

Culture

Turn Around Time

2 days

Test Setup

M-Sun

CPT Code

87070

Specimen Stability

24 hours

GENTAMICIN, PEAK**Test Code**

420P

Performed only at Spectra Southaven

Specimen Requirements0.5 mL serum (Red Top Tube - No Gel). Peak is drawn 30-60 minutes after IM injection or 60 minutes after IV infusion. **NOTE:** Label tube as Peak**Exception Value**

Tier 3 > 10.0 mcg/mL

Test Usage

Monitoring for therapeutic/safe dosing during Gentamicin therapy

Methodology

Chemiluminescence

Turn Around Time

2 - 3 days

Test Setup

Mon-Sat

LOINC Code

3663-2

CPT Code

80170

Therapeutic Range

5.0 - 10.0 mcg/mL (Peak)

Specimen Stability

Refrigerated 2 days at 2-8°C

GENTAMICIN, RANDOM**Test Code**

420R

Performed only at Spectra Southaven

Specimen Requirements

0.5 mL serum (Red Top Tube - No Gel)

Exception Value

Tier 3 > 10.0 mcg/mL

Test Usage

Monitoring for therapeutic/safe dosing during Gentamicin therapy

Methodology

Chemiluminescence

Turn Around Time

2 - 3 days

Test Setup

Mon-Sat

LOINC Code

35668-3

CPT Code

80170

Therapeutic Range

5.0 - 10.0 mcg/mL (Peak)

< 2.0 mcg/mL (Trough)

Specimen Stability

Refrigerated 2 days at 2-8°C

GENTAMICIN, TROUGH**Test Code**

420T

Performed only at Spectra Southaven

Specimen Requirements

0.5 mL serum (Red Top Tube - No Gel). Trough drawn within 30 minutes of next scheduled dose. **NOTE:** Label tube as Trough

Exception Value

Tier 3 > 4.0 mcg/mL

Tier 4 > 2.0 mcg/mL

Test Usage

Monitoring for therapeutic/safe dosing during Gentamicin therapy

Methodology

Chemiluminescence

Turn Around Time

2 - 3 days

Test Setup

Mon-Sat

LOINC Code

3665-7

CPT Code

80170

Therapeutic Range

< 2.0 mcg/mL (Trough)

Specimen Stability

Refrigerated 2 days at 2-8°C

GLUCOSE**Alternate Name/Abbreviation**

Blood Sugar

Test Code

116

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

70 - 100 mg/dL (fasting)

Exception Value

Tier 3 <50 mg/dL

Tier 4 >250 mg/dL

Alert Value

Tier 2 <40 > 600 mg/dL

Test Usage

1. Evaluation of blood sugar levels

2. Evaluation of carbohydrate metabolism

Methodology

Enzymatic

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2345-7

CPT Code

82947

Specimen Stability

Southaven: Refrigerated 7 days at 2-8°C

Rockleigh: Refrigerated 5 days at 2-8°C

GLUCOSE, ESTIMATED AVERAGE**Alternate Name/Abbreviation**

eAG

Test Code

525A

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood)

Reference Range

68-126 mg/dL

Test Usage

Estimated average glucose (eAG) is an estimated average of your blood sugar (glucose) levels over a period of 2 to 3 months. It is based on your A1C blood test results.

Methodology

Calculation

$$\text{eAG} = (28.7 \times \text{A1C}) - 46.7$$

eAG (estimated average glucose)

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

N/A

CPT Code

Calculation

Specimen Stability

Refrigerated 7 days

GLUCOSE, POST**Alternate Name/Abbreviation**

116P

Specimen Requirements

0.5 mL plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to Glucose for test information)**Specimen Stability**

Refrigerated 5 days

GRAM STAIN**Test Code**

753

Specimen Requirements

Representative sample using a sterile swab. Keep specimen at ambient temperature, OR collect in a sterile container, orange top. Keep refrigerated; transport with ice packs. Also indicate source

Reference Range

Dependent on source of specimen (See Patient's Report)

Test Usage

Microscopic observation of stained microorganisms

Methodology

Gram Stain

Turn Around Time

1 day

Test Setup

M-Sun

CPT Code

87205

Specimen Stability

3 days swab
2 days - sterile container

Haptoglobin**Test Code****Notes**

Performed at Spectra's reference laboratory. For additional information, visit <http://www.aruplab.com>

HDL CHOLESTEROL**Alternate Name/Abbreviation**

High-Density Lipoprotein Cholesterol

Test Code

142

Specimen Requirements

1.0 mL serum (SST Gel Tube)

Other Requirements

Fasting specimen preferred

Reference Range

<40 mg/dL - Low HDL Cholesterol

≥60 mg/dL - High HDL Cholesterol

Test Usage

Risk assessment of coronary heart disease

Methodology

Enzymatic

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2085-9

CPT Code

83718

Specimen Stability

Refrigerated 7 days at 2-8°C

HEMATOCRIT**Alternate Name/Abbreviation**

HCT

Test Code

200D

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood) **NOTE:** One tube is sufficient for all hematology tests

Other Requirements

Specimen must be stored and transported cold with ice packs as HCT values can rise artifactually if left at room temperature

Reference Range

Male: 42 - 52%

Female: 37 - 47%

Exception Value

Tier 3 < 24%

Alert Value

Tier 2 <22.6% >50.0%

Test Usage

1. Evaluation of anemia
2. Determination of efficacy of erythropoietin therapy

Methodology

Automated calculation from MCV and RBC

Interferences

1. Hemolyzed specimen
2. Specimen storage at room temperature can increase MCV, which in turn can lead to false elevations in HCT

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

4544-3

CPT Code

85014

Specimen Stability

3 days

HEMOGLOBIN**Alternate Name/Abbreviation**

Hgb

Test Code

200C

Specimen Requirements1 full Lavender Top Tube (EDTA whole blood) **NOTE:** One tube is sufficient for all hematology tests**Reference Range**

Male: 14.0 - 18.0 g/dL

Female: 12.0 - 16.0 g/dL

Exception Value

Tier 3 < 9.0 > 14.0 g/dL

Alert Value

Tier 2 ≤ 7.0 g/dL >18.0 g/dL

Test Usage

1. Evaluation of anemia
2. Determination of efficacy of erythropoietin therapy

Methodology

Colorimetric

Interferences

Results falsely elevated by lipemic samples, chylomicrons, or extremely high bilirubin

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

718-7

CPT Code

85018

Specimen Stability

5 days

HEMOGLOBIN A_{1C}**Alternate Name/Abbreviation**HbA_{1c}**Test Code**

525

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood)

Reference Range

4.8 - 5.9%

Test Usage

Provides an indication of how well blood glucose levels have been controlled over the previous 3 month period

Methodology

Immunoturbidimetric

Interferences

Falsely decreased values can occur in the presence of anemia

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

4548-4

CPT Code

83036

Specimen Stability

Refrigerated 5 days

HEMOGLOBIN ELECTROPHORESIS**Alternate Name/Abbreviation**

Performed at Spectra's reference laboratory. For additional test information, visit:

<http://www.aruplab.com>

HEMOGRAM**Alternate Name/Abbreviation**

Complete Blood Count (CBC)

Test Code

241

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood)

NOTE: One tube is sufficient for all hematology tests.

You can also order the following Hemogram tests:

Hemogram with Platelet

Hemogram with Differential and Platelet

Reference Range

See individual test components

Alert Value

See individual test components

Test Usage

1. Evaluation of the cellular components of the blood as part of an evaluation for anemia
2. Monitoring of response to routine adjunctive or erythropoietin therapy for anemia
3. Evaluation of symptoms of infection
4. Also see individual test components

Methodology

See individual test components

Interferences

1. Hemolyzed sample
2. Clotted sample
3. Incompletely filled tube
4. Diluted sample obtained from fistula needle which was not cleared of saline/heparin
5. Also see individual test components

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

See individual test components for LOINC information

CPT Code

See individual test components for CPT information

Notes

A Hemogram includes the following individual test components: RBC (Red Blood Cell)

WBC (White Blood Cell)

HCT (Hematocrit)

HGB (Hemoglobin)

MCV (Mean Corpuscular Volume)

MCH (Mean Corpuscular Hemoglobin)

MCHC (Mean Corpuscular Hemoglobin Concentration)

RDW (Red Cell Distribution Width)

Specimen Stability

Refrigerated 3 days

Note: Hemoglobin refrigerated 5 days

HEPATITIS A VIRUS ANTIBODY, IgM

Alternate Name/Abbreviation

Anti-HAV IgM, HAV-Ab IgM

Test Code

312

Specimen Requirements

0.5 mL serum (SST Gel Tube)-Rockleigh

0.5 mL plasma (Purple Top Tube)-Southaven

Reference Range

Negative

Test Usage

This assay is indicated for use as an aid in the diagnosis and monitoring of acute or recent Hepatitis A virus infection

Methodology

Chemiluminescence

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

22315-6

CPT Code

86709

Specimen Stability

Rockleigh: Refrigerated 2 days at 2-8° C

Southaven: Refrigerated 7 days at 2-8° C

HEPATITIS A VIRUS ANTIBODY, TOTAL

Alternate Name/Abbreviation

Anti-HAV Total, HAV-Ab Total

Test Code

307

Specimen Requirements

0.5 mL serum (SST Gel Tube)-Rockleigh

0.5 mL plasma (Purple Top Tube)-Southaven

Reference Range

Negative

Test Usage

Assessment of Hepatitis A infection

Methodology

Chemiluminescence

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

13951-9

CPT Code

86708

Specimen Stability

Refrigerated 7 days at 2-8°C

HEPATITIS B VIRUS CORE ANTIBODY, IgM

Alternate Name/Abbreviation

Anti-HB Core IgM

Test Code

308

Specimen Requirements

0.5 mL serum (SST Gel Tube)-Rockleigh

0.5 mL plasma (Purple Top Tube)-Southaven

Reference Range

Negative

Test Usage

Indicates acute Hepatitis B infection

Methodology

Chemiluminescence

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

22319-8

CPT Code

86705

Specimen Stability

Refrigerated 2 days at 2-8° C

HEPATITIS B VIRUS CORE ANTIBODY, TOTAL**Alternate Name/Abbreviation**

Anti-HBc Total

Test Code

306

Specimen Requirements

0.5 mL serum (SST Gel Tube)-Rockleigh

0.5 mL plasma (Purple Top Tube)-Southaven

Reference Range

Negative

Test Usage

1. Differential diagnosis of Hepatitis
2. In conjunction with other Hepatitis B markers, to assess the stage of infection

Methodology

Chemiluminescence

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

16933-4

CPT Code

86704

Specimen Stability

Refrigerated 5 days at 2-8° C

HEPATITIS B VIRUS DNA QUANTITATIVE BY PCR**Alternate Name/Abbreviation**

HBV DNA Quant RT-PCR

Performed only at Spectra-Southaven, MS

Test Code

318

Specimen Requirements

1 SST Gel tube required

This test requires a separate SST Gel tube.

Other Requirements

Stand to clot then centrifuge immediately. Store at 2°C to 8°C.

Add-on HBV DNA Quant PCR is not allowed.

Reference Range

Not detected

Test Usage

1. Aids in the management of patients with chronic HBV infection undergoing antiviral therapy
2. Can be used to measure HBV DNA levels at baseline and during treatment to aid in assessing response to treatment

Methodology

Nucleic Acid Amplification test PCR (Polymerase Chain Reaction)

Real Time v 2.0

Interferences

Unspun SST

Severely hemolyzed, heat-inactivated or lipemic specimens

Turn Around Time

3-10 days

Test Setup

Wed

LOINC Code

42595-9 (IU/mL)

48398-2 (log IU/mL)

CPT Code

87517

Specimen Stability

Refrigerated 72 hours

HEPATITIS B VIRUS SURFACE ANTIBODY**Alternate Name/Abbreviation**

HBsAb, anti-HBs

Test Code

305

Specimen Requirements

0.5 mL serum (SST Gel Tube)-Rockleigh

0.5 mL plasma (Purple Top Tube)-Southaven

Reference Range

< 10 mIU/mL, Non- Immune

Test Usage

Indicates clinical recovery or immunity to Hepatitis B and monitors response to vaccine

Methodology

Chemiluminescence

Interferences

Specimens containing precipitate

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

5193-8

CPT Code

86706

Specimen Stability

Refrigerated 7 days at 2-8°C

HEPATITIS B VIRUS SURFACE ANTIGEN**Alternate Name/Abbreviation**

HBsAg, Hepatitis B Surface Ag

Test Code

301

Specimen Requirements

0.5 mL serum (SST Gel Tube)-Rockleigh

0.5 mL plasma (Purple Top Tube)-Southaven

Reference Range

Negative

Alert Value

For newly confirmed positive - Tier 2, laboratory calls results on the same day of release (within normal clinic business hours); report is also transmitted to the clinic

Test Usage

Differential diagnosis and staging of Hepatitis B infection

Methodology

Chemiluminescence

Interferences

False reactives may occur following vaccination of Hepatitis B Vaccination

Turn Around Time

2 days (positive results require an additional 2 to 4 days for confirmation)

Test Setup

Mon-Sat

LOINC Code

5196-1

CPT Code

87340

Confirmatory Test

HBsAg Neutralization test is performed on all first-time positive results and is not billed

Specimen Stability

Refrigerated 7 days at 2-8°C

HEPATITIS Be VIRUS ANTIBODY**Alternate Name/Abbreviation**

Anti-HBe, HBeAb (Performed only at Spectra - Rockleigh, NJ)

Test Code

304

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Test should be ordered only when recent infection with Hepatitis B has been ascertained

Reference Range

Negative

Test Usage

Differential diagnosis and staging of Hepatitis infection

Methodology

Enzyme Immunoassay (EIA)

Turn Around Time

2 days

Test Setup

Tue-Sat

LOINC Code

22320-6

CPT Code

86707

Specimen Stability

Refrigerated 7 days at 2-8°C

HEPATITIS Be VIRUS ANTIGEN**Alternate Name/Abbreviation**

HBeAg, Hepatitis Be Ag (Performed only at Spectra - Rockleigh, NJ)

Test Code

303

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

Negative

Test Usage

Differential diagnosis and staging of Hepatitis B infection

Methodology

Enzyme Immunoassay (EIA)

Turn Around Time

2 days

Test Setup

Tue-Sat

LOINC Code

31844-4

CPT Code

87350

Specimen Stability

Refrigerated 7 days at 2-8°C

HEPATITIS C VIRAL RNA GENOTYPE, LiPA**Alternate Name/Abbreviation**

HCV RNA GENOTYPE LiPA

Performed at Spectra's reference laboratory. For additional information, visit www.questdiagnostics.com

Test Code

8402

Specimen Requirements

1 large SST Gel Tube

Reference Range

See report

Test Usage

1. Determines whether to begin antiviral therapy in patients with chronic Hepatitis C Virus (HCV)
2. Determines duration and dosage of treatment
3. Predicts response to therapy

Methodology

Multi Probe Reverse Hybridization

Turn Around Time

5-6 days

Test Setup

Mon-Sat

CPT Code

87902

Specimen Stability

Refrigerated 14 days

HEPATITIS C VIRUS ANTIBODY WITH REFLEX TO HCV RNA Quant by PCR**Alternate Name/Abbreviation**

Anti-HCV with reflex to PCR, Hep C virus Ab rflx PCR

Test Code

313

Specimen Requirements

Rockleigh – 2 SST Gel tubes

Southaven – 1 Purple top, 1 SST Gel tube

Other Requirements

Stand to clot and centrifuge immediately.

Store at 2° C to 8° C

Add-on HCV RNA Quant PCR is not allowed

Reference Range

Not detected

Test Usage

1. Aids in the diagnosis of HCV infection
2. Predicts response to therapy and monitors therapy
3. Useful in the differential diagnosis of severe autoimmune Hepatitis and Hepatitis C

Methodology

Chemiluminescence Immunoassay, Nucleic Acid Amplification test PCR (Polymerase Chain Reaction), Real Time v 2.0

Interferences

Unspun SST and Green-stopper (Heparin) tube.

Specimens containing particulate material.

Severely hemolyzed, heat-inactivated, or lipemic specimens.

Turn Around Time

2 days for anti-HCV

3-7 days for HCV RNA Quant by PCR

Test Setup

Mon-Sat (anti HCV)

Tue and Fri (HCV RNA Quant by PCR)

CPT Code

Anti HCV - 86803, the reflexed test if Anti HCV is reactive - 87522

Notes

If Anti HCV results are Reactive or Equivocal, test automatically reflexes to Quantitative HCV PCR to confirm active HCV infection.

Specimen Stability

Refrigerated 5 days (anti HCV)

Refrigerated 72 hours (HCV PCR)

HEPATITIS C VIRUS ANTIBODY**Alternate Name/Abbreviation**

HCV, Anti-HCV

Test Code

310

Specimen Requirements

0.5 mL serum (SST Gel Tube)-Rockleigh

0.5 mL plasma (Purple Top Tube)-Southaven

Reference Range

Non-reactive

Test Usage

1. Detection and diagnosis of chronic Hepatitis C virus infection.
2. Predicts responsiveness to therapy and monitors therapy
3. Useful in the differential diagnosis of severe autoimmune Hepatitis and Hepatitis C

Methodology

Chemiluminescence

Interferences

Gross hemolysis, lipemia and icterus

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

16128-1

CPT Code

86803

Notes

Reactive screening test results by Chemiluminescence Immunoassay should be followed by a supplemental or confirmatory test, such as HCV RNA Quant by PCR

Confirmatory Test

HCV RNA by PCR

Specimen Stability

Refrigerated 7 days at 2-8°C

HEPATITIS C VIRUS RNA QUANTITATIVE BY PCR**Alternate Name/Abbreviation**

HCV RNA Quant PCR

Performed only at Spectra-Southaven, MS

Test Code

311

Specimen Requirements

1 SST Gel tube required

This test requires a separate SST Gel tube.

Other Requirements

Stand to clot then centrifuge immediately. Store at 2°C to 8°C.

Add-on HCV RNA Quant PCR is not allowed.

Reference Range

Not detected

Test Usage

1. Aids in the diagnosis of HCV infection
2. Predicts response to therapy and monitors therapy
3. Useful in the differential diagnosis of severe autoimmune Hepatitis and Hepatitis C

Methodology

Nucleic Acid Amplification test PCR (Polymerase Chain Reaction), Real Time v 2.0

Interferences

Unspun SST

Severely hemolyzed, heat-inactivated or lipemic specimens.

Turn Around Time

3-10 days

Test Setup

Tue and Fri

LOINC Code

11011-4 (IU/mL)

38180-6 (log 10)

CPT Code

87522

Specimen Stability

Refrigerated 72 hours

HIV Ag/Ab Combo

Test Code

336

Specimen Requirements

1.0 mL serum (SST Gel Tube)

Reference Range

Non-reactive

Test Usage

Identification of infection with human immunodeficiency virus (HIV)

Methodology

Chemiluminescence

Turn Around Time

3-7 days

Test Setup

Tue-Sat

LOINC Code

48345-3

CPT Code

87389

Confirmatory Test

All reactive tests will be sent for HIV 1 /2 Ab Differentiation, Supplement w/Reflex HIV-1 RNA, PCR testing at an additional charge.

Specimen Stability

Refrigerated 7 days 2-8° C

HIV-1 RNA QUANTITATIVE REAL - TIME PCR

Alternate Name/Abbreviation

Performed at Spectra's reference laboratory. For additional test information, visit:

<http://www.aruplab.com>

HOMOCYSTEINE

Notes

Performed at Spectra's reference laboratory. For additional information, visit <http://www.aruplab.com>

HUMAN CHORIONIC GONADOTROPIN, QUALITATIVE

Notes

Performed at Spectra's reference laboratory. For additional information, visit <http://www.aruplab.com>

HUMAN CHORIONIC GONADOTROPIN, QUANTITATIVE

Alternate Name/Abbreviation

Performed at Spectra's reference laboratory. For additional test information, visit:

<http://www.aruplab.com>

IRON, SERUM

Alternate Name/Abbreviation

Fe

Test Code

122

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

Female: 30 - 160 mcg/dL

Males: 45 - 160 mcg/dL

Test Usage

1. Monitoring for iron toxicity/overload or its treatment with deferoxamine
2. Evaluation of ferrokinetics during erythropoietin treatment
3. Evaluation of iron transport/metabolism

Methodology

Colorimetric

Interferences

1. Gross hemolysis
2. Parenteral administration of iron dextran within one month of test date

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2498-4

CPT Code

83540

Specimen Stability

Refrigerated 7 days at 2-8°C

Iron, Water**Alternate Name/Abbreviation**

Fe Water

(Performed only at Southaven, MS)

Test Code

50

Specimen Requirements

Minimum volume: 25 mL

Other Requirements

Use Trace Water Bottle (100 mL) certified for trace element analysis and provided by Spectra, samples in other containers may be assayed with a disclaimer of "cannot be verified as certified for trace analysis testing."

(One full Trace Water Bottle is sufficient to perform 800W, 801W, 50,54,57 testing.)

Reference Range

Not provided

Test Usage

Monitoring presence or trace amount in water samples

Interferences

Sediments, color, odor

Turn Around Time

2 – 5 days

Test Setup

Mon-Sat

LOINC Code

N/A

CPT Code

N/A

Specimen Stability

14 days

KOH PREP**Alternate Name/Abbreviation**

Fungal Smear, Potassium Hydroxide Prep

(Performed only at Spectra - Rockleigh, NJ)

Test Code

776

Specimen Requirements

Collect specimen in a blue swab. Keep specimen at ambient temperature, OR collect in a sterile container. Keep specimen at refrigerated temperature.

Reference Range

No fungal elements seen

Test Usage

Microscopic observation of specimens to detect the presence of fungal elements

Methodology

Potassium Hydroxide treatment of specimen

Turn Around Time

1 day

Test Setup

Mon-Sun

LOINC Code

55305-7

CPT Code
Q0112

Kt/V, Daugirdas II

Alternate Name/Abbreviation

Kt/V, Natural Log

Test Code

180W

Specimen Requirements

0.5 mL serum (SST Gel Tube) drawn pre-dialysis

0.5 mL plasma (Green Post Tube) drawn post-dialysis

NOTE: Tube must be labeled "POST"

Test Usage

Determination of dialysis adequacy

Methodology

Calculation: $-LN((Post\ BUN/Pre\ BUN) - 0.008 * Time) + (4 - 3.5) * (Post\ BUN/Pre\ BUN) * UF/W$

Where

Time = Time of dialysis treatment (hours)

UF = Pre weight - Post weight

W = Post weight

Turn Around Time

1 day (after receiving all missing order data)

Test Setup

Mon-Sat

LOINC Code

N/A

CPT Code

Calculation

Kt/V, QUICK - KESHAVIAH

Test Code

180K

Specimen Requirements

0.5 mL serum (SST Gel Tube) drawn pre-dialysis

0.5 mL plasma (Green Post Tube) drawn post-dialysis

NOTE: Tube must be labeled "POST"

Test Usage

Determination of dialysis adequacy

Methodology

Calculations: $KESHAVIAH = 1.162 * LN(PRE\ BUN/POST\ BUN)$

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

N/A

CPT Code

Calculation

Kt/V, STANDARD

Alternate Name/Abbreviation

Note: You can also order Kt/V, Standard that does not provide URR (180U)

Test Code

180T

Specimen Requirements

0.5 mL serum (SST Gel Tube) drawn pre-dialysis

0.5 mL plasma (Green Post Tube) drawn post-dialysis

NOTE: Tube must be labeled "POST"

Test Usage

Determination of dialysis adequacy

Methodology

Calculations: $std\ Kt/V = 168 * [1 - \exp(-eKt/V)] / t / [(1 - \exp(-eKt/V)) / spKt/V + 168/N/t - 1]$

Turn Around Time

1 day (after receiving all missing order data)

Test Setup

Mon-Sat

LOINC Code

N/A

CPT Code

Calculation

LACTATE DEHYDROGENASE**Alternate Name/Abbreviation**

LDH

Test Code

112

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

The test should be performed only on pre-dialysis specimens

Reference Range

118 - 273 U/L

Test Usage

Aids in the diagnosis of a variety of disorders including renal infarction, liver disease, cardiomyopathy, neoplasm and certain types of anemia

Methodology

Enzymatic

Interferences

Gross hemolysis

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

14804-9

CPT Code

83615

Specimen Stability

Refrigerated 7 days at 2-8°C

LDL CHOLESTEROL (CALC)**Alternate Name/Abbreviation**

Low-Density Lipoprotein Cholesterol

Test Code

143

Specimen Requirements

2.0 mL serum (SST Gel Tube)

Other Requirements

1. Fasting specimen preferred
2. Calculated from Cholesterol, HDL and Triglycerides

Reference Range

- 0 - 99 mg/dL
- < 100 mg/dL (Optimal)
- 100 - 129 mg/dL (Near/Above Optimal)
- 130 - 159 mg/dL (Borderline High)
- 160 - 189 mg/dL (High)
- ≥ 190 mg/dL (Very High)

Test Usage

Assessment of coronary atherosclerosis risk

Methodology

LDL is calculated using the following formula: $LDL = Cholesterol - (HDL + Triglycerides/5)$

Interferences

1. This calculation is not valid for specimens with triglyceride levels > 400 mg/dL
2. Alcoholic beverage ingestion within the last 24 hours prior to the test

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

13457-7

CPT Code

Calculation

Specimen Stability

Refrigerated 5 days

LDL CHOLESTEROL, DIRECT**Test Code**

149

Specimen Requirements

2.0 mL serum (SST Gel Tube)

Reference Range

0 - 99 mg/dL

< 100 mg/dL (Optimal) - Recommended

100 - 129 mg/dL (Near/Above Optimal)

130 - 159 mg/dL (Borderline High)

160 - 189 mg/dL (High)

≥ 190 mg/dL (Very High)

Test Usage

Assessment of coronary atherosclerosis risk

Methodology

Enzymatic

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

18262-6

CPT Code

83721

Specimen Stability

Rockleigh: Refrigerated 5 days at 2-8° C

Southaven: Refrigerated 7days at 2-8°C

LIPASE**Alternate Name/Abbreviation**

Performed only at Spectra - Rockleigh, NJ

Test Code

134A

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

11-82 U/L

Test Usage

Aids in the diagnosis of pancreatitis and other pancreatic disease, cholecystitis, peritonitis and strangulated bowel

Methodology

Colorimetric

Interferences

Venipuncture immediately after or during the administration of Metamizole (Dipyrone) may lead to falsely low results for Lipase. Venipuncture should be performed prior to the administration of Metamizole.

Turn Around Time

1 day

Test Setup

Tue-Fri

LOINC Code

3040-3

CPT Code

83690

Specimen Stability

Refrigerated 7 days at 2-8°C

LIPID PROFILE

Alternate Name/Abbreviation

Includes: Cholesterol, Triyglycerides, HDL Cholesterol, LDL (calc), VLDL (calc)

Refer to individual tests for additional information

Test Code

530A

Specimen Requirements

2.0 mL serum (SST Gel Tube)

Specimen Stability

Refrigerated 5 days

LUTEINIZING HORMONE

Alternate Name/Abbreviation

Performed at Spectra's reference laboratory. For additional test information, visit:

<http://www.aruplab.com>

LYMPHOCYTES, ABSOLUTE COUNT

Test Code

214A

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood)

NOTE: One tube is sufficient for all hematology tests

Reference Range

0.9 - 5.2 x 1000/mcL

Test Usage

1. Provides an absolute number of lymphocytes for use in relating percentages to actual cell counts
2. Aids in the diagnosis of, and/or determination of, the progression of certain immune disorders and opportunistic infections
3. Aids in the diagnosis of, and/or determination of, the progression of lymphocytic leukemia.

Methodology

Flow Cytometry

Interferences

Steroids and general anesthesia may cause falsely low values

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

731-0

CPT Code

85048

MAGNESIUM

Alternate Name/Abbreviation

Mg

Test Code

124

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

1.6-2.6 mg/dL

Exception Value

Tier 3 <1.2>4.9 mg/dL

Tier 4 <1.8 mg/dL

Test Usage

Detection of hypo- or hypermagnesemia

Methodology

Colorimetric

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2601-3

CPT Code

83735

Specimen Stability

Refrigerated 7 days at 2-8°C

MAGNESIUM, POST**Test Code**

124T

Specimen Requirements

0.5 mL plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to Magnesium for test information)**LOINC Code**

55937-7

CPT Code

83735

Specimen Stability

Refrigerated 5 days

MCH (Mean Corpuscular Hemoglobin)**Alternate Name/Abbreviation**

Test is included as a part of a Hemogram

Test Code

200V

Reference Range

27 - 31 pg/cell

Test Usage

Aids in the diagnosis and differentiation of iron deficiency and/or anemia

Methodology

Automated calculation

Interferences

Hemolyzed or clotted specimen

LOINC Code

785-6

MCHC (Mean Corpuscular Hemoglobin Concentration)**Alternate Name/Abbreviation**

Test is included as a part of a Hemogram

Test Code

200W

Reference Range

30 - 36 g/dL

Test Usage

Aids in the diagnosis and differentiation of iron deficiency and/or anemia

Methodology

Automated calculation

Interferences

Hemolyzed or clotted specimen

LOINC Code

786-4

MCV (Mean Corpuscular Volume)**Alternate Name/Abbreviation**

Test is included as a part of a Hemogram

Test Code

200U

Reference Range

80 - 100 fL

Test Usage

Aids in the diagnosis and differentiation of iron deficiency and/or anemia

Methodology

Forward light scatter, automated, Flow Cytometry

Interferences

Hemolyzed or clotted specimen

LOINC Code

787-2

MEASLES IgG**Alternate Name/Abbreviation**

Rubeola Virus Ab IgG, Total

Test Code

317L

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

< 13.5 AU/mL Negative

≥13.5 - < 16.5 Equivocal

≥16.5 AU/mL Positive

Test Usage

Used as an aid in the determination of serological status to measles virus.

Methodology

Chemiluminescent immunoassay

Interferences

Gross hemolysis, lipemia. Samples containing particulate matter and obvious microbial contamination

Turn Around Time

2 days

Test Setup

Mon - Sat

LOINC Code

35275-7

CPT Code

86765

Specimen Stability

Refrigerated 7 days at 2-8°C

MUMPS VIRUS ANTIBODY, IgG**Alternate Name/Abbreviation**

Mumps IgGb

Test Code

322

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

0.0-8.9

Test Usage

Used as an aid in the determination of serological status to mumps virus

Methodology

Chemiluminescent Immunoassay

Interferences

Gross hemolysis, lipemia, samples containing particulate matter and obvious microbial contamination

Turn Around Time

2 days

Test Setup

Tue-Sat

LOINC Code

6476-6

CPT Code

86735

Specimen Stability

Refrigerated 7 days at 2-8°C

NASOPHARYNGEAL CULTURE**Alternate Name/Abbreviation**

Nasal Culture, Upper Respiratory Culture

Test Code

754

Specimen Requirements

Collect specimen on an orange swab. Keep specimen at ambient temperature

Reference Range

Normal upper respiratory flora. Does not include gram stain

Test Usage

To isolate, identify, and determine potential pathogens present in the nasopharynx

Methodology

Culture

Turn Around Time

2 days

Test Setup

Mon-Sun

CPT Code

87070

Specimen Stability

3 days

NASOPHARYNGEAL CULTURE-MRSA**Test Code**

754M

Specimen Requirements

Collect specimen on an orange swab. Keep specimen at ambient temperature

Reference Range

No MRSA isolated

Test Usage

To isolate, identify, and determine the specific presence of "Methicillin Resistant Staphylococcus aureus" in the nasal cavity

Methodology

Culture

Turn Around Time

2 days

Test Setup

Mon-Sun

CPT Code

87081

Specimen Stability

3 days

Nickel, Water**Alternate Name/Abbreviation**

Ni Water

Test Code

54

Specimen Requirements

Minimum volume: 25 mL

Other Requirements

Use Trace Water Bottle (100 mL) certified for trace element analysis and provided by Spectra, samples in other containers may be assayed with a disclaimer of "cannot be verified as certified for trace analysis testing."

(One full Trace Water Bottle is sufficient to perform 800W, 801W, 50,54,57 testing.)

Reference Range

Not provided

Test Usage

Monitoring presence or trace amount in water samples

Interferences

Sediments, color, odor

Turn Around Time

2 – 5 days

Test Setup

Mon-Sat

Specimen Stability

14 days

NxStage Source Water Chemical Analysis

Alternate Name/Abbreviation

NxStage Source Water Test

Test Code

800N

Test Components:

Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Lead, Magnesium, Mercury, Potassium, Selenium, Silver, Sodium, Thallium, Zinc, Fluoride, Nitrates, Sulfates

Specimen Requirements

Minimum volume: 25 mL

Other Requirements

Use Trace Water Bottle (100 mL) certified for trace element analysis and provided by Spectra, samples in other containers may be assayed with a disclaimer of “cannot be verified as certified for trace analysis testing.”

(One full Trace Water Bottle is sufficient to perform 800N, 801W, 50,54,57 testing.)

Reference Range

0 up to NxStage specifications

Chemical Contaminant	Testing Methodology - Southaven only	AAMI Max Allowable Levels (mg/L)	NxStage Source Water Specifications (mg/L)
Aluminum	ICP-MS	0.01	0.2
Total Chlorine	Not performed in lab; AAMI recommends to perform on site.	0.1	4.0
Copper	ICP-MS	0.1	1.3
Fluoride	IC	0.2	4.0
Lead	ICP-MS	0.005	0.015
Nitrate (as N)	IC	2	10
Sulfate	IC	100	250
Zinc	ICP-MS	0.1	5
Calcium	ICP-MS	2 (0.05 mmol/L)	No limit
Magnesium	ICP-MS	4 (0.15 mmol/L)	No limit
Potassium	ICP-MS	8 (0.2 mmol/L)	No limit
Sodium	ICP-MS	70 (3.0 mmol/L)	No limit

Antimony	ICP-MS	0.006	0.006
Arsenic	ICP-MS	0.005	0.01
Barium	ICP-MS	0.1	2
Beryllium	ICP-MS	0.0004	0.004
Cadmium	ICP-MS	0.001	0.005
Chromium	ICP-MS	0.014	0.1
Mercury	ICP-MS	0.0002	0.002
Selenium	ICP-MS	0.09	0.05
Silver	ICP-MS	0.005	0.1
Thallium	ICP-MS	0.002	0.002

Test Usage

Confirming source water requirements for PureFlow SL system required by NxStage

Methodology

Ion Chromatography (IC), Inductively Coupled Plasma Mass Spectrometry (ICP-MS), performed only at Spectra – Southaven, MS

Rejection Criteria

Presence of interference, quantity not sufficient (QNS), no or incorrect labels of sample containers or old specimens

Interferences

Sediments, color, odor

Turn Around Time

2 – 5 days

Test Setup

Mon-Sat

LOINC Code

N/A

CPT Code

N/A

Specimen Stability

14 days

OCCULT BLOOD - STOOL

Alternate Name/Abbreviation

Guaiac Test

Test Code

770

Specimen Requirements

Place stool sample on the Occult Blood Card. After collecting the specimen in a clean dry container, transfer a small portion to the Occult Blood Card before transporting to the laboratory. Keep at room temperature, place card(s) in a biohazard bag and ship with other specimens. Each occult blood specimen must have its own accession number.

Refer to detailed collection and shipping instructions:

[Clinic Staff Instructions \(pdf\)](#)

[Patient Instructions \(pdf\)](#)

Reference Range

Negative

Test Usage

To detect hidden blood in a stool or gastrointestinal bleeding

Methodology

Guaiac Test

Turn Around Time

1 day

Test Setup

Mon-Sun

LOINC Code

OBRE #1: 14563-1

OBRE #2: 14564-9

OBRE #3: 14565-6

CPT Code

82272

PARATHYROID HORMONE (PTH), INTACT (PLASMA)**Alternate Name/Abbreviation**

See PTH-Intact, Plasma

PARTIAL THROMBOPLASTIN TIME, ACTIVATED**Alternate Name/Abbreviation**

See Activated PTT, APTT

PD Adequacy**Test Code**

670 - PEDIATRIC

672 - MULTI PD ADEQUACY, PEDIATRIC

680 - ADULT

682 - MULTI PD ADEQUACY, ADULT

Specimen Requirements**Adult Adequacy includes:**

1. Urea Clearance (PD) PD Volume and Collection Time
2. Measured Creatinine Clearance (PD) (See # 3 for requirements)
3. Kt/V Measured PD
 - Dialysate Total Volume
 - Dialysate Total Time
 - Urine Total Volume
 - Urine Total Time
 - Height and Weight of the Patient
 - Amputee Status (if appropriate)

Pediatric Adequacy includes:

Same information as for Adult Adequacy (see above)

Specimen Requirements:

Creatinine and Urea Nitrogen Serum

(SST Gel Tube)

Creatinine and Urea Clearances PD

Creatinine, Urea, and Glucose 24 hr PD Fluid (Clear top round bottom tube) with Total Volume recorded

Creatinine and Urea Clearance Urine

Creatinine and Urea Urine timed (hr) collection (Clear top round bottom tube) with Total Volume recorded

Kt/V Measured PD for Adult and Children includes:

PNA, nPNA, PD Creatinine and Urine Clearances, weekly calculations, PD Fluid Kt/V, Urine Kt/V if urine is provided, Urea Volume, and Total Kt/V.

To perform calculations, all tubes must be provided. All patient data (height, weight, and amputee status) and specimen volumes and collection times are necessary.

Turn Around Time

2 days

Test Setup

M-Sat

PERITONEAL DIALYSIS FLUID CULTURE, AEROBIC AND ANAEROBIC WITH GRAM STAIN (INCLUDES YEAST)**Alternate Name/Abbreviation**

PDF CULTURE

Test Code

736

Specimen Requirements

One set of blood cultures (aerobic and anaerobic) and clear top tube for gram stain

Keep bottles at room temperature (15°C -30°C)

Other Requirements

Inoculate the aerobic bottle first

Make sure each bottle contains at least 10 mL of PDF

Collect bottles and clear top tube at the same time.

Gram stains are performed on positive cultures only

Reference Range

No aerobic or anaerobic growth after 5 days of inoculation

Alert Value

Tier 2 all Positives

Test Usage

To isolate, identify and determine antimicrobial sensitivity of microorganisms in PDF; aids in the diagnosis if suspected infectious peritonitis

Methodology

Culture

Turn Around Time

5 days; interim reports are issued each day in addition to whenever the cultures are positive

Test Setup

Mon-Sun

CPT Code

87070, 87075

Specimen Stability

5 days

Peritoneal Function Test**Alternate Name/Abbreviation**

PFT

Test Code

636

Specimen Requirements

1. 1 to 5 PDF samples in clear top round bottom tube. Tests required: Urea Nitrogen, Creatinine, Glucose, and Protein

2. Timed Urine in clear top round bottom tube. Tests required: Urea Nitrogen, Creatinine

3. Serum (SST Gel Tube). Tests required: BUN, Creatinine, Glucose, Protein, and Albumin

Other Requirements**The PFT requires:**

1. A sampling of each exchange

2. A written record of each exchange

3. Inflow and outflow volume and glucose concentration

4. Duration of dwell for each exchange in the 24 hours before a clinic visit

5. A urine collection and blood sample at the end of the collection

6. An exchange drained in the clinic at the time of the visit (QA sample) as a control

Data needed:

1. Collection Time for each PDF specimen

2. Volume in each PDF specimen (inflow volume)

3. Volume out for each PDF specimen (outflow volume)

4. Urine Collection Time, 24 hours

5. Urine Volume

Turn Around Time

2 days

Test Setup

M-Sat

pH/Conductivity Panel, Dialysate**Alternate Name/Abbreviation**

pH, Conductivity, Resistivity

Test Code

801D

Specimen Requirements

Minimum volume: 50 mL

Other Requirements

Use Trace Water Bottle (100 mL) certified for trace element analysis and provided by Spectra, or dialysate bag
(One full Trace Water Bottle or dialysate bag is sufficient to perform 800A and 801D testing.)

Reference Range

Not provided

Test Usage

Monitoring dialysate pH and confirmation of on-site measuring devices

Methodology

PC Titration, performed only at Spectra – Southaven, MS

Rejection Criteria

Quantity not sufficient (QNS), no or incorrect labels of sample containers or old specimens

Interferences

Dialysate concentrate or acid concentrate cannot be measured in this lab

Turn Around Time

2 – 5 days

Test Setup

Mon-Sat

LOINC Code

N/A

CPT Code

N/A

Specimen Stability

14 days

pH/Conductivity Panel, Water**Test Code**

801W

Test Components:

pH, Conductivity, Resistivity

Specimen Requirements

Minimum volume: 50 mL

Other Requirements

Use Trace Water Bottle (100 mL) certified for trace element analysis and provided by Spectra, samples in other containers may be assayed with a disclaimer of “cannot be verified as certified for trace analysis testing.”

(One full Trace Water Bottle is sufficient to perform 800W, 801W, 50,54,57 testing.)

Reference Range

Not provided

Test Usage

Monitoring water quality and confirmation of on-site measuring devices

Methodology

PC Titration, performed only at Spectra Southaven, MS

Rejection Criteria

Presence of interference, quantity not sufficient (QNS), no or incorrect labels of sample containers or old specimens

Interferences

Sediments, color, odor

Turn Around Time

2 – 5 days

Test Setup

Mon-Sat

LOINC Code

N/A

CPT Code

N/A

Specimen Stability

14 days

PHOSPHORUS**Test Code**

108

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Fasting specimen preferred

Reference Range

2.6 - 4.5 mg/dL

Exception Value

Tier 3 <1.0 >10.0 mg/dL

Tier 4 <1.5 mg/dL

Test Usage

Phosphate levels may be used in the diagnosis and management of a variety of disorders including bone, parathyroid and renal diseases

Methodology

Colorimetric

Interferences

Hemolysis causes falsely elevated results

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2777-1

CPT Code

84100

Specimen Stability

Refrigerated 7 days at 2-8°C

PHOSPHORUS, POST**Test Code**

159

Specimen Requirements

0.5 mL plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to Phosphorus for test information)

Reference Range

2.6 - 4.5 mg/dL

Test Usage

To aid in the management of phosphorus levels

LOINC Code

48617-5

CPT Code

84100

Specimen Stability

Refrigerated 5 days

PHOSPHORUS, URINE RANDOM**Alternate Name/Abbreviation**

PhosURan

Test Code

108U

Specimen Requirements

Clear Urine Random

Other Requirements

None

Reference Range

None

Exception Value

N/A

Alert Value

N/A

Test Usage

Diagnosis and treatment of various disorders including parathyroid and kidney diseases and vitamin D imbalance

Methodology

Colorimetric

Interferences

Turbidity

Turn Around Time

24hrs

Test Setup

Daily

LOINC Code

2778-9

CPT Code

84105

Confirmatory Test

N/A

Specimen Stability

Refrigerated 7 days at 2-8°C

PHOSPHORUS, WATER**Alternate Name/Abbreviation**

P Water

Test Code

57

Specimen Requirements

Minimum volume: 25 mL

Other Requirements

Use Trace Water Bottle (100 mL) certified for trace element analysis and provided by Spectra, samples in other containers may be assayed with a disclaimer of “cannot be verified as certified for trace analysis testing.”

(One full Trace Water Bottle is sufficient to perform 800W, 801W, 50,54,57 testing.)

Reference Range

Not provided

Test Usage

Monitoring presence or trace amount in water samples

Interferences

Sediments, color, odor

Turn Around Time

2 – 5 days

Test Setup

Mon-Sat

LOINC Code

N/A

CPT Code

N/A

Specimen Stability

14 days

PLATELET COUNT**Alternate Name/Abbreviation**

Thrombocyte Count

Test Code

201

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood)

NOTE: One tube is sufficient for all hematology tests**Reference Range**

130 - 400 1000/mcL

NOTE: Smear review will trigger when the platelet count is > 1,000,000**Exception Value**

Tier 3 < 130 > 500 1000/mcL

Alert Value

Tier 2 <20 > 1000 1000/mcL

Test Usage

Evaluation, diagnosis and follow-up of bleeding disorders

Methodology

Flow Cytometry

Interferences

Hemolyzed specimen

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

777-3

CPT Code

85049

POTASSIUM, URINE RANDOM**Alternate Name/Abbreviation**

K URR

Test Code

103U

Specimen Requirements

Clear Urine Random

Other Requirements

None

Reference Range

None

Exception Value

N/A

Alert Value

N/A

Test Usage

Electrolytes serve to maintain osmotic pressure and hydration of body fluid compartments, proper body pH and regulation of heart and muscle functions

Methodology

ISE

Interferences

Turbidity

Turn Around Time

24hrs

Test Setup

Daily

LOINC Code

2828-2

CPT Code

84133

Confirmatory Test

N/A

Specimen Stability

Refrigerated 7 days at 2-8° C

POTASSIUM, PLASMA**Test Code**

103P

Specimen Requirements

0.5 mL plasma (Green Top Plasma Separator Tube)

Reference Range

3.4 - 4.5 mEq/L

Alert Value

Tier 2 < 3.0 > 7.0 mEq/L

Test Usage

Evaluation/monitoring of electrolyte balance (Refer to Potassium for remaining test information)

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2823-3

CPT Code

84132

Stability

Refrigerated 5 days (unopened)

Specimen Stability

5 days (unopened)

POTASSIUM, POST

Test Code

154

Specimen Requirements

0.5 mL plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to Potassium for test information)

Reference Range

3.5 - 5.1 mEq/L

Test Usage

Assessment of dialysis efficacy (Refer to Potassium for remaining test information)

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

29349-8

CPT Code

84132

Specimen Stability

Refrigerated 5 days (unopened)

POTASSIUM, SERUM

Alternate Name/Abbreviation

K+

Test Code

103

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

3.5 - 5.1 mEq/L

Exception Value

Tier 3 < 3.2 > 6.3 mEq/L

Alert Value

Tier 2 < 3.0 > 7.0 mEq/L

Test Usage

Evaluation of electrolyte balance, cardiac arrhythmia, muscular weakness, hepatic encephalopathy, and renal failure

Methodology

Ion-Selective Electrode (ISE)

Interferences

Hemolyzed specimen

Delay in centrifugation of sample

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2823-3

CPT Code

84132

Specimen Stability

Refrigerated 7 days at 2-8°C (unopened)

POTASSIUM, URINE TIMED

Alternate Name/Abbreviation

KUTim

Test Code

103R

Specimen Requirements

Clear Urine Random

Other Requirements

None

Reference Range

25 – 125mEq/24 hr

Exception Value

N/A

Alert Value

N/A

Test Usage

Electrolytes serve to maintain osmotic pressure and hydration of body fluid compartments, proper body pH and regulation of heart and muscle functions

Methodology

ISE

Interferences

Turbidity

Turn Around Time

24hrs

Test Setup

Daily

LOINC Code

21476-7

CPT Code

4133

Confirmatory Test

N/A

Specimen Stability

Refrigerated 5 days at 2-8° C

PREALBUMIN**Alternate Name/Abbreviation**

Transthyretin

Test Code

148

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

18.0 - 33.8 mg/dL

Test Usage

Provides an early marker of nutritional status

Methodology

Turbidimetric

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

14338-8

CPT Code

84134

Specimen Stability

Refrigerated 7 days at 2-8°C

PROLACTIN**Alternate Name/Abbreviation**

Performed at Spectra's reference laboratory. For additional test information, visit:

<http://www.aruplab.com>

PROSTATE SPECIFIC ANTIGEN, DIAGNOSTIC**Alternate Name/Abbreviation**

PSA

Test Code

440

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

0 - 4.0 ng/mL

Test Usage

Biological prostate cancer recurrence (according to the 2013 American Urological Association or the 2015 European Association of Urology guideline) is defined as a detectable or rising PSA value post-radical prostatectomy that is ≥ 0.2 ng/mL with a second confirmatory level of ≥ 0.2 ng/mL. The Limit of Quantitation (LOQ) for "Centaur XP instrument" is 0.06 ng/mL.

This result was obtained by the Siemens Medical Solutions Diagnostics Advia Centaur XP chemiluminescent method. Values obtained with different assays are not interchangeable. The PSA value should be used in conjunction with information available from clinical evaluation and other diagnostic procedures.

Methodology

Chemiluminescence

Interferences

1. Rectal examination within 48 hours prior to the test may be associated with falsely elevated results
2. Gross hemolysis

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

2857-1

CPT Code

84153

Specimen Stability

Refrigerated 5 days

PROSTATE SPECIFIC ANTIGEN, SCREENING**Alternate Name/Abbreviation**

PSA

Test Code

440P

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

0 - 4.0 ng/mL

Test Usage

1. Aids in the diagnosis of prostate cancer
2. Enables prediction of survival and tumor recurrence in patients with prostate cancer

Methodology

Chemiluminescence

Interferences

1. Rectal examination within 48 hours prior to the test may be associated with falsely elevated results
2. Gross hemolysis

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

2857-1

CPT Code

G0103

Specimen Stability

Refrigerated 5 days at 2-8°C

PROTEIN ELECTROPHORESIS**Alternate Name/Abbreviation**

Performed at Spectra's reference laboratory. For additional test information, visit: <http://www.aruplab.com>

PROTEIN, TOTAL**Test Code**

114

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

6.0 - 8.5 g/dL

Test Usage

Evaluation of nutritional status and diagnosis and treatment of a variety of diseases involving the liver, kidney, or bone marrow

Methodology

Colorimetric

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2885-2

CPT Code

84155

Specimen Stability

Refrigerated 7 days at 2-8°C

PROTEIN, TOTAL FLUID**Test Code**

114W PROTEIN,TOTAL PD FLUID

114O PROTEIN,TOTAL OVERNIGHT

114T PROTEIN,TOTAL PD FLUID TIMED

22P PROTEIN,TOTAL PANEL (PET)

Specimen Requirements

PDF

Test Usage

Used for diagnosis and treatment of diseases associated with renal, cardiac and thyroid functions.

Methodology

Colorimetric

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

12843-9

CPT Code

84157

Specimen Stability

Refrigerated 5 days

PROTEIN/CREATININE RATIO, URINE**Test Code**

174

Specimen Requirements

Clear top round bottom tube

Other Requirements

Component tests 102U Creatinine Urine and 114U Protein Urine must be ordered

Reference Range

Pediatric 0.0-0.4 mg/mg

Adult 0.0-0.1 mg/mg

Test Usage

To monitor persistent Proteinuria

Methodology

Calculation: Ratio = protein/creatinine

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2890-2

CPT Code

Calculation

PROTHROMBIN TIME/ INR, POST**Test Code**

251P

Specimen Requirements

1 full Light Blue Top tube **NOTE:** Must be labeled ""POST"" (Refer to Prothrombin for test information)

PROTHROMBIN TIME/INR**Alternate Name/Abbreviation**

PT-INR, Protime-INR

Test Code

251

Specimen Requirements

1 full Light Blue Top Tube (citrated whole blood) with 3.2% of sodium citrate

Other Requirements

The fistula needle must be flushed thoroughly; draw blood culture tubes and tubes without additives prior to PT tube

Reference Range

Lot Dependent. See patient clinical results report for reference range

Exception Value

INR:

Tier 3 > 3.5

Alert Value

INR:

Tier 2 > 5.0

Test Usage

1. Monitoring Warfarin (Coumadin) therapy
2. Evaluation of clotting disorders

Methodology

Rockleigh-Electromagnetic Clot Detection

Southaven-Photo Optical

Rejection Criteria

Incomplete filling of tube

Interferences

1. Hemolyzed specimen
2. Inadequate flushing of heparin from fistula

Turn Around Time

Results are sent to the client's printer or faxed to the facility the same day the specimen is received

Test Setup

Mon-Sat

LOINC Code

5902-2

CPT Code

85610

Specimen Stability

Refrigerated 3 days

Therapeutic INR

2.0 - 3.0 Std

2.5 - 3.5 High

PSA**Alternate Name/Abbreviation**

See Prostate Specific Antigen

Specimen Stability

Refrigerated 5 days

PTH-INTACT PLASMA**Alternate Name/Abbreviation**

Parathyroid Hormone

Test Code

369P

Specimen Requirements

One full Purple top tube (refrigerate, do not freeze)

Other Requirements

Requires separate tube other than tube submitted for CBC, Hemoglobin and Hematocrit or other tests requiring lavender top tube

Reference Range

16 to 80 pg/mL

Test Usage

Monitoring of levels of biologically active PTH as indication of hyperparathyroidism and secondary hypercalcemia and bone disease

Monitoring of hypocalcemia

Methodology

Chemiluminescence

Interferences

Severe hemolysis or lipemia

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

2731-8

CPT Code

83970

Specimen Stability

Refrigerated 7 days at 2-8°C

RA FACTORS**Alternate Name/Abbreviation**

Performed at Spectra's reference laboratory. For additional test information, visit:

<http://www.aruplab.com>

RECIRCULATION (CALC)**Alternate Name/Abbreviation**

% Recirculation, % Recirc

Test Code

163

Specimen Requirements

1.0 - 5.0 mL SST tube for each BUN (arterial, venous and peripheral blood)

Other Requirements

1. Calculated from arterial, venous and peripheral BUN values
2. Ensure that tubes are identified with the proper label (arterial, venous and peripheral)

Reference Range

0 - 9 %

Test Usage

Determination of access recirculation as an indication of access dysfunction

Methodology

Percentage recirculation is calculated as follows: % Recirculation = $100 \times (\text{Peripheral BUN} - \text{Arterial BUN}) / (\text{Peripheral BUN} - \text{Venous BUN})$

Turn Around Time

1 day

Test Setup

Mon-Sat

CPT Code

Calculation

RED BLOOD CELL COUNT**Alternate Name/Abbreviation**

Retic Count

Test Code

207

Specimen Requirements

1 full Lavender Top Tube

Reference Range

Male: 4.70 - 6.10 mill/mcL

Female: 4.20 - 5.40 mill/mcL

Test Usage

Evaluation of anemia and/or efficacy of its treatment

Methodology

Flow Cytometry

Interferences

1. Hemolyzed specimen
2. Clotted specimen
3. The presence of cold agglutinins can lead to falsely low values
4. Very high WBC counts (> 200,000 thous/mcL) elevates the red blood cells

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

789-8

CPT Code

85041

Specimen Stability

3 days

RETICULOCYTE COUNT**Alternate Name/Abbreviation**

Retic Count

Test Code

211

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood) **NOTE:** One tube is sufficient for all hematology tests

Reference Range

0.8 - 2.1 %

Test Usage

1. Assessment of erythropoietic bone marrow activity in anemia and other hematologic conditions
2. Evaluation of response to therapeutic interventions

Methodology

Flow Cytometry

Interferences

1. Hemolyzed specimen
2. Clotted specimen

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

17849-1

CPT Code

85045

Specimen Stability

3 days

RETICULOCYTE COUNT, ABSOLUTE**Alternate Name/Abbreviation**

Reticulocytes, Absolute

Test Code

211A

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood)
(Refer to Reticulocyte count for test information)

Reference Range

40 - 100 1000/mcL

LOINC Code

60474-4

RETICULOCYTE HEMOGLOBIN CONTENT**Alternate Name/Abbreviation**

CHr

Test Code

210

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood) **NOTE:** One tube is sufficient for all hematology tests

Reference Range

25.4 - 31.8 pg

Test Usage

Aids in the evaluation of iron deficiency. Detection of functional iron deficiency in patients treated with recombinant EPO

Methodology

Flow Cytometry

Interferences

Hemolyzed specimen

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

71694-4

CPT Code

85046

Specimen Stability

5 days

RUBELLA VIRUS Ab IgG, TOTAL**Alternate Name/Abbreviation**

Anti-Rubella IgG

Test Code

315

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

0.0 - 4.9 IU/mL

< 5.0 IU/mL Negative

5.0 - 9.9 IU/mL Equivocal

≥ 10.0 IU/mL Positive

Test Usage

Assessing immunity to rubella virus infection

Methodology

Chemiluminescence

Turn Around Time

2-3 days

Test Setup

Mon-Sat

LOINC Code

8014-3

CPT Code

86762

Specimen Stability

Refrigerated 7 days at 2-8°C

RUBEOLA VIRUS Ab IgG, TOTAL**Alternate Name/Abbreviation**

See Measles IgG

SARS-COV-2-PCR**Alternate Name/Abbreviation**

Covid-19 – Performed only at Spectra Southaven

Test Code

8410

Specimen Requirements

Roche PCR media 4.3mL (UniSwab)

Reference Range

Negative

Alert Value

Positive

Test Usage

Qualitative detection of SARS-CoV-2 viral nucleic acids

Methodology

Reverse Transcription Polymerase Chain Reaction (RT-PCR)

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

94309-2

CPT Code

87635

Specimen Stability

Refrigerated 3 days at 2-8°C

SERUM GLUTAMIC-OXALOACETIC TRANSAMINASE/SGOT**Alternate Name/Abbreviation**

See AST/SGOT

SERUM GLUTAMIC-PYRUVIC TRANSAMINASE/SGPT**Alternate Name/Abbreviation**

See ALT/SGPT

SICKLE CELL HEMOGLOBIN SOLUBILITY**Alternate Name/Abbreviation**

Performed at Spectra's reference laboratory. For additional test information, visit:

<http://www.aruplab.com>

SODIUM**Alternate Name/Abbreviation**

Na

Test Code

140

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

136 - 145 mEq/L

Exception Value

Tier 3 >150

Alert Value

Tier 2 < 120 > 155 mEq/L

Test Usage

Determination of electrolyte and acid-base balance

Methodology

Ion-Selective Electrode (ISE)

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2951-2

CPT Code

84295

Specimen Stability

Refrigerated 7 days at 2-8°C (unopened)

SODIUM IN BICARBONATE CONCENTRATE SOLUTION**Alternate Name/Abbreviation**

Sodium in Bicarb Conc Sol

Test Code

104B

Specimen Requirements

Bicarbonate concentrate in clear top round bottom tube

Test Usage

Measure the Sodium content in facility-prepared Bicarbonate concentrate

Methodology

Enzymatic, Ion-Selective Electrode (ISE)

Turn Around Time

1 day

Test Setup

Mon-Sat

Specimen Stability

5 days

SODIUM, PD FLUID**Alternate Name/Abbreviation**

Sodium PDF, Na PDF

Test Code

104K

Specimen Requirements

Clear top round bottom tube with PD Fluid

Reference Range

No reference range

Test Usage

Measure Sodium in peritoneal dialysate fluid

Methodology

Ion-Selective Electrode (ISE)

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

39787-7

CPT Code

84302

Specimen Stability

5 days

SODIUM, POST**Test Code**

158

Specimen Requirements

0.5 mL plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to Sodium for test information)

Reference Range

136 - 145 mEq/L

Alert Value

< 120 or > 150 mEq/L

Test Usage

Management of sodium levels

Specimen Stability

5 days (unopened)

SODIUM, URINE RANDOM**Alternate Name/Abbreviation**

NaURan

Test Code

104U

Specimen Requirements

Clear Urine Random

Other Requirements

None

Reference Range

None

Exception Value

N/A

Alert Value

N/A

Test Usage

Electrolytes serve to maintain osmotic pressure and hydration of body fluid compartments, proper body pH and regulation of heart and muscle functions

Methodology

ISE

Interferences

Turbidity

Turn Around Time

24hrs

Test Setup

Daily

LOINC Code

2955-3

CPT Code

84300

Confirmatory Test

N/A

Specimen Stability

Refrigerated 7 days at 2-8° C

SODIUM, URINE TIMED**Alternate Name/Abbreviation**

NAUTim

Test Code

104V

Specimen Requirements

Clear Urine Random

Other Requirements

None

Reference Range

40 – 220mEq/24 hr

Exception Value

N/A

Alert Value

N/A

Test Usage

Electrolytes serve to maintain osmotic pressure and hydration of body fluid compartments, proper body pH and regulation of heart and muscle functions

Methodology

ISE

Interferences

Turbidity

Turn Around Time

24hrs

Test Setup

Daily

LOINC Code

21525-1

CPT Code

84300

Confirmatory Test

N/A

Specimen Stability

Refrigerated 7 days at 2-8° C

SPUTUM CULTURE**Alternate Name/Abbreviation**

Lower Respiratory Culture: Includes Gram Stain

Test Code

757

Specimen Requirements

Collect specimen in sterile container, orange top. Keep refrigerated; transport with ice packs. Also indicate source

Reference Range

Normal respiratory flora

Test Usage

To isolate, identify, and determine antimicrobial sensitivity of potential pathogens in the lower respiratory tract

Methodology

Culture

Turn Around Time

2 days; interim reports are issued whenever cultures are positive

Test Setup

M-Sun

CPT Code

87070

Specimen Stability

2 days

Standard Peritoneal Equilibration Test**Alternate Name/Abbreviation**

Standard PET

Test Code

22

Specimen Requirements

Serum Glucose and Creatinine at 2 hours (SST Gel Tube)

Dialysate Glucose and Creatinine at 0, 2 & 4 hours (Clear top round bottom tube labeled 0, 2, & 4 hours)

Other Requirements

Steps for performing PET

Step 1: 8-12 hours "overnight" 2 L, 2.5% dextrose dwell

Step 2: Prepare 2 L, 2.5% dextrose solution

Step 3: Drain "overnight" dwell. If submitting sample, collect 8.5 mL PD Fluid in Clear top round bottom tube. **Label Timed PD Fluid**

Step 4: Infuse fresh solution. 400 mL per 2 minutes. **Note 0 hour dwell.**

Step 5: Collect 8.5 mL PD Fluid in Clear top round bottom tube at 0 hour dwell time. **Label PD Fluid 0 hr**

Step 6: Collect 8.5 mL PD Fluid in Clear top round bottom tube at 2 hour dwell time. **Label PD Fluid 2 hr**

Step 7: Collect and spin SST at 2 hour dwell time.

Step 8: Drain exchange at 4 hour dwell time. Record volume.

Step 9: Collect 8.5 mL PD Fluid in Clear top round bottom tube from 4 hour dwell. **Label PD Fluid 4 hr**

Step 10: Refrigerate and ship samples.

Methodology**STANDARD PET CALCULATIONS****This determines Glucose Transport Classification**

Step 1: $2 \text{ hr D/DO} = 2 \text{ hr Peritoneal Dialysate Glucose} / 0 \text{ hr Peritoneal Dialysate Glucose}$

$4 \text{ hr D/DO} = 4 \text{ hr Peritoneal Dialysate Glucose} / 0 \text{ hr Peritoneal Dialysate Glucose}$

This determines Creatinine Transport Classification

Step 2: $0 \text{ hr D/P} = 0 \text{ hr Peritoneal Dialysate Creatinine} / \text{Serum Creatinine}$

$2 \text{ hr D/P} = 2 \text{ hr Peritoneal Dialysate Creatinine} / \text{Serum Creatinine}$

$4 \text{ hr D/P} = 4 \text{ hr Peritoneal Dialysate Creatinine} / \text{Serum Creatinine}$

Step 3: Additional Patient Solute Transport Classification information may be obtained by plotting the post PET drain volume.

Turn Around Time

2 days

Test Setup

M-Sat

Standard Peritoneal Equilibration Test with Sodium**Alternate Name/Abbreviation**

Standard PET with Sodium

Test Code

22 for PET

22S for Sodium Panel, PET

Specimen Requirements

Same as Standard PET plus Serum Sodium at 2 hours (SST Gel Tube)

Same as Standard PET plus Dialysate Sodium at 0, 2, & 4 hr specimens

Other Requirements

Steps for performing PET

Step 1: 8-12 hours "overnight" 2 L, 2.5% dextrose dwell

Step 2: Prepare 2 L, 2.5% dextrose solution

Step 3: Drain "overnight" dwell. If submitting sample, collect 8.5 mL PD Fluid in Yellow Conical Tube. **Label Timed PD Fluid**

Step 4: Infuse fresh solution. 400 mL per 2 minutes. **Note 0 hour dwell.**

Step 5: Collect 8.5 mL PD Fluid in Yellow Conical Tube at 0 hour dwell time. **Label PD Fluid 0 hr**

Step 6: Collect 8.5 mL PD Fluid in Yellow Conical Tube at 2 hour dwell time. **Label PD Fluid 2 hr**

Step 7: Collect and spin SST at 2 hour dwell time.

Step 8: Drain exchange at 4 hour dwell time. Record volume.

Step 9: Collect 8.5 mL PD Fluid in Yellow Conical Tube from 4 hour dwell. **Label PD Fluid 4 hr**

Step 10: Refrigerate and ship samples.

Methodology

STANDARD PET CALCULATIONS

Glucose Transport Classification

Step 1: 2 hr D/DO = 2 hr Peritoneal Dialysate Glucose/0 hr Peritoneal Dialysate Glucose

4 hr D/DO = 4 hr Peritoneal Dialysate Glucose/0 hr Peritoneal Dialysate Glucose

This determines Creatinine Transport Classification

Step 2: 0 hr D/P = 0 hr Peritoneal Dialysate Creatinine/Serum Creatinine

2 hr D/P = 2 hr Peritoneal Dialysate Creatinine/ Serum Creatinine

4 hr D/P = 4 hr Peritoneal Dialysate Creatinine / Serum Creatinine

Step 3: Additional Patient Solute Transport Classification information may be obtained by plotting the post PET drain volume.

Turn Around Time

2 days

Test Setup

M-Sat

Standard Peritoneal Equilibration Test with Total Protein

Alternate Name/Abbreviation

Standard PET with Total Protein

Test Code

22 for Standard PET

22P for Total Protein PET

Specimen Requirements

Same as Standard PET plus Serum Total Protein at 2 hours (SST Gel Tube)

Same as Standard PET plus Dialysate Total Protein at 0, 2, & 4 hr specimens

Other Requirements

Steps for performing PET

Step 1: 8-12 hours "overnight" 2 L, 2.5% dextrose dwell

Step 2: Prepare 2 L, 2.5% dextrose solution

Step 3: Drain "overnight" dwell. If submitting sample, collect 8.5 mL PD Fluid in Yellow Conical Tube. **Label Timed PD Fluid**

Step 4: Infuse fresh solution. 400 mL per 2 minutes. Note 0 hour dwell.

Step 5: Collect 8.5 mL PD Fluid in Yellow Conical Tube at 0 hour dwell time. **Label PD Fluid 0 hr**

Step 6: Collect 8.5 mL PD Fluid in Yellow Conical Tube at 2 hour dwell time. **Label PD Fluid 2 hr**

Step 7: Collect and spin SST at 2 hour dwell time.

Step 8: Drain exchange at 4 hour dwell time. Record volume.

Step 9: Collect 8.5 mL PD Fluid in Yellow Conical Tube from 4 hour dwell. **Label PD Fluid 4 hr**

Step 10: Refrigerate and ship samples.

Methodology

STANDARD PET CALCULATIONS

Glucose Transport Classification

Step 1: 2 hr D/DO = 2 hr Peritoneal Dialysate Glucose/0 hr Peritoneal Dialysate Glucose

4 hr D/DO = 4 hr Peritoneal Dialysate Glucose/0 hr Peritoneal Dialysate Glucose

This determines Creatinine Transport Classification

Step 2: 0 hr D/P = 0 hr Peritoneal Dialysate Creatinine/Serum Creatinine

2 hr D/P = 2 hr Peritoneal Dialysate Creatinine/ Serum Creatinine

4 hr D/P = 4 hr Peritoneal Dialysate Creatinine / Serum Creatinine

Step 3: Additional Patient Solute Transport Classification information may be obtained by plotting the post PET drain volume.

Turn Around Time

2 days

Test Setup
M-Sat

Standard Peritoneal Equilibration Test with Urea

Alternate Name/Abbreviation
Standard PET with Urea

Test Code
22R

Specimen Requirements
Same as Standard PET plus Serum Urea at 2 hours (SST Gel Tube)
Same as Standard PET plus Dialysate Urea on 0, 2, & 4 hr specimens

Other Requirements
Steps for performing PET
Step 1: 8-12 hours "overnight" 2 L, 2.5% dextrose dwell
Step 2: Prepare 2 L, 2.5% dextrose solution
Step 3: Drain "overnight" dwell. If submitting sample, collect 8.5 mL PD Fluid in Yellow Conical Tube. **Label Timed PD Fluid**
Step 4: Infuse fresh solution. 400 mL per 2 minutes. **Note 0 hour dwell.**
Step 5: Collect 8.5 mL PD Fluid in Yellow Conical Tube at 0 hour dwell time. **Label PD Fluid 0 hr**
Step 6: Collect 8.5 mL PD Fluid in Yellow Conical Tube at 2 hour dwell time. **Label PD Fluid 2 hr**
Step 7: Collect and spin SST at 2 hour dwell time.
Step 8: Drain exchange at 4 hour dwell time. Record volume.
Step 9: Collect 8.5 mL PD Fluid in Yellow Conical Tube from 4 hour dwell. **Label PD Fluid 4 hr**
Step 10: Refrigerate and ship samples.

Methodology
Standard PET Calculations
Step 1: 2 hr D/DO = 2 hr Peritoneal Dialysate Glucose/0 hr Peritoneal Dialysate Glucose
4 hr D/DO = 4 hr Peritoneal Dialysate Glucose/0 hr Peritoneal Dialysate Glucose

This determines Glucose Transport Classification

Step 2: 0 hr D/P = 0 hr Peritoneal Dialysate Creatinine/ Serum Creatinine
2 hr D/P = 2 hr Peritoneal Dialysate Creatinine/ Serum Creatinine
4 hr D/P = 4 hr Peritoneal Dialysate Creatinine / Serum Creatinine

This determines Creatinine Transport Classification and Glucose Transport Classification based only on 4 hr D/P

Step 3: Additional Patient Solute Transport Classification information may be obtained by plotting the post PET drain volume.

Turn Around Time
2 days

Test Setup
M-Sat

STOOL CULTURE

Alternate Name/Abbreviation
Enteric Culture, Feces Culture

Test Code
759

Specimen Requirements
Collect stool using Stool Culture Kit (Cary Blair) or sterile container. Keep specimen at refrigerated temperature

Reference Range
No Shigella, Salmonella, Campylobacter, Aeromonas, Plesiomonas & E. coli 0157 isolated

Exception Value
Tier 3 Positive for Salmonella, Shigella, Campylobacter or E. coli 0157

Test Usage
To isolate, identify, and determine antimicrobial sensitivity of pathogenic bacteria in the stool and/or diagnosis of Shigella, Salmonella, Campylobacter, Aeromonas, Plesiomonas & E. coli 0157 infection

Methodology
Culture and antimicrobial sensitivity

Turn Around Time
2 days

Test Setup
M-Sun

CPT Code
87045, 87046

Specimen Stability
3 days - Cary Blair
2 days - sterile container

STOOL FOR CLOSTRIDIUM DIFFICILE ANTIGEN, TOXIN A AND TOXIN B

Alternate Name/Abbreviation

Antibiotic-Associated Colitis Toxin Test, Pseudomembranous Colitis Toxin Assay

Test Code

731

Specimen Requirements

Collect 1 gram (1/2 teaspoon) of stool in sterile container, orange top. Freeze specimen

Reference Range

Negative

Test Usage

Detection of Clostridium Difficile toxin A and B in a stool sample. Aids in the diagnosis of suspected C. difficile antibiotic associated colitis

Methodology

Rapid Membrane Enzyme Immunoassay

Turn Around Time

2 days

Test Setup

T-Sat

LOINC Code

34468-9

CPT Code

87449

Specimen Stability

2 days

Culture, Fungus

Alternate Name/Abbreviation

Mold Culture, Yeast Culture

Test Code

775 – Culture, Fungus (PDF)

Specimen Requirements

- Cutaneous specimens (skin, nail, hair) – sterile container; keep specimens at ambient temperature
- Specimens from other non-sterile site (respiratory, GI tract, etc.) - sterile container; keep refrigerated; transport with ice packs
- Wound sites, catheter exit sites, etc. – blue swab; keep specimens at ambient temperature; submit 2 swabs if ordered with routine culture
- Specimen requirements are currently listed in the test menu

Gram stains are performed on positive cultures only

Please specify source

Reference Range

No fungi isolated

Test Usage

To isolate and identify fungus from a culture specimen

Methodology

Culture

Turn Around Time

4 weeks; interim reports will be issued at 48 hours, 1 week, 2 weeks, 3 weeks, 4 weeks or whenever the cultures are positive

Test Setup

Mon-Sun

CPT Code

87102- Fungus isolation culture

87101- Skin

Specimen Stability

3 days - swab

2 days - sterile container

SYPHILIS TEST WITH CONFIRMATION

Alternate Name/Abbreviation

Serology test for Syphilis, Syphilis Screen

Test Code

319C

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Specimen should be drawn before meals

Reference Range

Non-reactive

Test Usage

Screening for syphilis

Methodology

Chemiluminescence Immunoassay

Interferences

1. False positives can be seen in specimens from persons who abuse drugs, have diseases such as lupus, mononucleosis, leprosy, malaria, viral pneumonia, or who are pregnant
2. Gross hemolysis

Turn Around Time

1 day

Test Setup

Tue-Sat

CPT Code

86592

Confirmatory Test

Positive test reflexed to RPR and titer. Negative RPR test is sent out for Microhemagglutination Treponema Pallidum (MHATP)

Specimen Stability

Refrigerated 7 days at 2-8°C

T UPTAKE**Alternate Name/Abbreviation**

T3 Uptake

Test Code

352

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

22 - 37%

Test Usage

Thyroid function test for the diagnosis of hypo- or hyperthyroidism

Methodology

Chemiluminescence

Interferences

1. Heparin may cause falsely elevated results
2. Results may be falsely increased in severe acidosis

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

3050-2

CPT Code

84479

Specimen Stability

Refrigerated 5 days at 2-8°C

THROAT CULTURE**Alternate Name/Abbreviation**

Strep Culture

Test Code

761

Specimen Requirements

Collect specimen in a blue swab. Keep specimen at ambient temperature. Does not include gram stain

Reference Range

Normal throat flora

Test Usage

To isolate and identify potential pathogens (primarily Beta-Hemolytic Streptococcus) in throat

Methodology

To isolate and identify potential pathogens in the throat

Turn Around Time

2 days

Test Setup

M-Sun

CPT Code
87070
Specimen Stability
3 days

THROAT CULTURE-BETA STREP SCREEN

Test Code
748
Specimen Requirements
Collect specimen in a blue swab. Keep specimen at ambient temperature
Reference Range
No Beta Strep Isolated
Test Usage
To isolate and identify Beta-Hemolytic Streptococcus in throat
Methodology
Culture
Turn Around Time
2 days
Test Setup
M-Sun
CPT Code
87081
Specimen Stability
3 days

THYROID STIMULATING HORMONE, 3rd GENERATION

Alternate Name/Abbreviation
TSH3
Test Code
357U
Specimen Requirements
0.5 mL serum (SST Gel Tube)
Reference Range
0.300 - 3.000 mIU/L
Test Usage
1. Determination of thyroid function/evaluation of treatment
2. Differentiation of primary hypothyroidism from pituitary/hypothalamic hypothyroidism
Methodology
Chemiluminescence
Turn Around Time
1 day
Test Setup
Mon-Sat
LOINC Code
11580-8
CPT Code
84443
Specimen Stability
Refrigerated 7 days at 2-8°C

THYROXINE (T4)

Alternate Name/Abbreviation
Total T4
Test Code
351
Specimen Requirements
0.5 mL serum (SST Gel Tube)
Reference Range
4.5 - 10.9 mcg/dL
Test Usage
Determination of thyroid function
Methodology
Chemiluminescence
Interferences
1. Hemolyzed specimen
2. Lipemic specimen

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

3026-2

CPT Code

84436

Specimen Stability

Refrigerated 7 days at 2-8°C

THYROXINE (T4), FREE**Alternate Name/Abbreviation**

Unbound T4, FT4

Test Code

356

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

0.89 - 1.76 ng/dL

Test Usage

Assessment of the severity of hyperthyroidism. Evaluation of TSH changes for an accurate thyroid status in patients with abnormal thyroid-binding globulin (TBG) levels

Methodology

Chemiluminescence

Interferences

Gross hemolysis

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

3024-7

CPT Code

84439

Specimen Stability

Refrigerated 7 days at 2-8°C

TOBRAMYCIN, PEAK**Alternate Name/Abbreviation**Performed at Spectra's reference laboratory. For additional information, visit: <https://www.aruplab.com>

TOBRAMYCIN, RANDOM**Alternate Name/Abbreviation**Performed at Spectra's reference laboratory. For additional information, visit: <https://www.aruplab.com>

TOBRAMYCIN, TROUGH**Alternate Name/Abbreviation**Performed at Spectra's reference laboratory. For additional information, visit: <https://www.aruplab.com>

TOTAL IRON BINDING CAPACITY (TIBC)**Test Code**

168

Specimen Requirements

2.0 mL serum (SST Gel Tube)

Other Requirements

Calculated from serum iron and UIBC

Reference Range

185-515 mcg/dL

Test Usage

1. Differential diagnosis of anemia
2. Evaluation of iron toxicity/overload in renal dialysis patients

Methodology

Colorimetric (Performed in Southaven)

Calculated from serum iron and UIBC: TIBC = Iron + UIBC (Performed in Rockleigh)

Interferences

1. Hemolyzed specimen
2. Parenteral administration of iron dextran within the last month

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2500-7

CPT Code

Calculation

Specimen Stability

Refrigerated 7 days at 2-8°C

TRANSFERRIN**Test Code**

137

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Fasting specimen preferred

Reference Range

203 - 362 mg/dL

Test Usage

1. Evaluation of iron stores
2. Evaluation of nutritional status

Methodology

Immunoturbidimetric

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

3034-6

CPT Code

84466

Specimen Stability

Refrigerated 7 days at 2-8°C

TRANSFERRIN SATURATION (CALC)**Test Code**

169

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Calculated from serum iron and UIBC

Reference Range

20 - 55%

Test Usage

1. Determination of iron deficiency
2. Provides a measure of the iron immediately available for erythropoiesis

Methodology

Calculated from serum iron and UIBC

Transferrin Saturation = (Iron/(Iron + UIBC) x 100

Interferences

1. Hemolysis
2. Iron dextran administration within 1 month prior to test

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2502-3

CPT Code

Calculation

Specimen Stability

Refrigerated 5 days

TRIGLYCERIDES**Test Code**

119

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

1. Fasting specimen preferred (fasting overnight 12-14 hours)
2. Specimen should be obtained prior to heparin administration

Reference Range

0-149 mg/dL

Report Comments:

<150 mg/dL - Normal

150-199 mg/dL - Borderline High

200-499 mg/dL - High

≥ 500 mg/dL - Very High

Test Usage

1. Evaluation of hyperlipidemia
2. Evaluation of risk factors in individuals with elevated cholesterol values

Methodology

Enzymatic

Interferences

Recent heparin administration may lead to falsely elevated results.

Venipuncture immediately after or during the administration of Metamizole (Dipyrone) may lead to falsely low results for Triglycerides.

Venipuncture should be performed prior to the administration of Metamizole.

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2571-8

CPT Code

84478

Specimen Stability

Refrigerated 7 days at 2-8°C

TRIGLYCERIDES, POST**Test Code**

119P

Specimen Requirements

0.5 mL plasma Green Post Tube

NOTE: Tube must be labeled "POST" (Refer to Triglycerides for test information)**Specimen Stability**

Refrigerated 5 days

TRIIODOTHYRONINE (T3), FREE**Alternate Name/Abbreviation**

Unbound T3, Free T3, FT3

Test Code

358

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

2.3 - 4.2 pg/mL

Test Usage

Certain conditions such as pregnancy and steroid therapy, can alter levels of T3 binding proteins, especially TBG. In these conditions, free T3 levels are unchanged

Methodology

Chemiluminescence

Interferences

Gross hemolysis

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

3051-0

CPT Code

84481

Specimen Stability

Refrigerated 7 days at 2-8°C

TRIIODOTHYRONINE (T3), TOTAL**Alternate Name/Abbreviation**

Total T3

Test Code

350

Specimen Requirements

1.0 mL serum (SST Gel Tube)

Reference Range

0.6 - 1.8 ng/mL

Test Usage

Determination of thyroid function/evaluation of treatment

Methodology

Chemiluminescence

Interferences

1. Hemolyzed specimen
2. Lipemic specimen

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

3053-6

CPT Code

84480

Specimen Stability

Refrigerated 7 days at 2-8°C

TSH**Alternate Name/Abbreviation**

Refer to Thyroid Stimulating Hormone, 3rd Generation (TSH3) for test details

TVMC ULTRAPURE COLONY COUNT**Alternate Name/Abbreviation**

Performed only at Spectra Laboratories - Rockleigh, NJ

Test Code

773U-TVMC, Ultrapure BicarbUKRU

771U-TVMC, Ultrapure Dialysate

774U-TVMC, Ultrapure Water

Specimen Requirements

Dialysis water, Dialysate, Bicarb fluid

Other Requirements

- 100 mL of water, dialysate or bicarb fluid is collected in a sterile cup (orange cup)
- Sterile container must be immediately refrigerated after collection and until ready to be shipped to Spectra
- Ship to Spectra (Rockleigh only) using the supplied WATER AND DIALYSATE SHIPPING BOX with ice packs
- Ensure that all samples are properly labeled with the Spectra barcode to identify the sample

Reference Range

≤0.01 cfu/mL

Alert Value

≥0.01 cfu/mL

Test Usage

Colony Count is the quantitative enumeration of the number of viable microorganisms present in water/dialysate sample submitted for examination. It is a measure of bacterial contamination following culture and incubation on microbiological medium. Colony Count is expressed in CFU/mL (Colony Forming Units per milliliter).

Methodology

Membrane filtration using 100 mL of water, dialysate or bicarb fluid. Plate is incubated and colony count reported at 7 days. Interim reports are issued at 48 hrs. and 4 days.

Turn Around Time

7 days

Test Setup

Sun-Sat

Specimen Stability

<48 hours

UIBC**Alternate Name/Abbreviation**

Unsaturated Iron Binding Capacity

Test Code

167

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

155-355 mcg/dL

Test Usage

1. Differential diagnosis anemia
2. Evaluation of iron status

Methodology

Colorimetric (Performed in Rockleigh)

Calculated from serum iron and TIBC: UIBC = TIBC - IRON (Performed in Southaven)

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

2501-5

CPT Code

83550

Specimen Stability

Refrigerated 7 days at 2-8°C

UREA CLEARANCE**Test Code**

621

Specimen Requirements

0.5 mL serum (SST Gel Tube) and a sample of the 24 hr. urine collection, mixed well before obtaining clear top round bottom tube of urine. Ship only the clear top round bottom tube.

Reference Range

64-99.0 mL/min

Test Usage

Diagnosis of renal function

Methodology

Enzymatic

Interferences

Gross Hemolysis

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

59187-5

CPT Code

Calculation

Urea Clearance = (Urea Nitrogen Urine Timed / Pre Bun) * (Urine Volume / (Collection Time * 60))

UREA CLEARANCE, URINE

Alternate Name/Abbreviation

See Urea Clearance

UREA NITROGEN, SERUM

Alternate Name/Abbreviation

See BUN

UREA NITROGEN, URINE

Test Code

151N

Specimen Requirements

8.0 mL aliquot of a 24-hr urine collection in a clear top round bottom tube

Other Requirements

Total volume of urine required. INDICATE URINE ON TUBE

Reference Range

12 - 20 g/24 hrs

Test Usage

Determination of renal function and nitrogen balance

Methodology

Enzymatic

Turn Around Time

1 day

Test Setup

M-Sat

LOINC Code

3095-7

CPT Code

84540

Specimen Stability

Refrigerated 5 days at 2-8°C

UREA REDUCTION RATIO (CALC)

Alternate Name/Abbreviation

URR

Test Code

156A

Specimen Requirements

0.5 mL serum drawn pre-dialysis (SST Gel Tube)

0.5 mL plasma drawn post-dialysis (Gold Post Tube)

Other Requirements

Calculated from pre and post-dialysis BUN values

Reference Range

65 - 80%

Exception Value

Tier 4 < 60%

Test Usage

Provides an indication of hemodialysis adequacy

Methodology

The URR is calculated as follows: $URR (\%) = 100 \times (1 - (\text{Post-dialysis BUN} / \text{Pre-dialysis BUN}))$

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

54456-9

CPT Code

Calculation

URIC ACID

Test Code

117

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Fasting specimen preferred

Reference Range

Male: 4.4 - 7.6 mg/dL

Female: 2.3 - 6.6 mg/dL

Exception Value

Tier 3 >15.0 mg/dL

Tier 4 >12.0 mg/dL

Test Usage

The uric acid test is used to search for and/or monitor Gout. Although uric acid can precipitate at a level of 6.8 mg/dL, most patients with uric acid above this level do not have clinical gout, as blood can become super-saturated without crystal formation. Gout is most common in patients with kidney disease, DM II, those taking diuretics or low dose aspirin, the obese, and in starvation.

Methodology

Colorimetric

Interferences

Venipuncture immediately after or during the administration of Metamizole (Dipyrone) may lead to falsely low results for Uric Acid. Venipuncture should be performed prior to the administration of Metamizole.

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

3084-1

CPT Code

84550

Specimen Stability

Refrigerated 7 days at 2-8°C

URINALYSIS-COMplete**Test Code**

710

Specimen Requirements

Collect specimen in yellow tube

Reference Range**Microscopic:**

RBC: 0-2/HPF

WBC: 0-5/HPF

Epithelial: none to few

Bacteria: Negative

Casts: Negative

Crystals: Negative

Yeast: Negative

Dipstick:

Color: Yellow

Appearance: Clear

Specific Gravity: 1.001-1.035

pH: 5.0 to 9.0

Leukocyte esterase: Negative

Protein: Negative

Glucose: Negative

Ketones: Negative

Urobilinogen: 0.2 - 1.0 mg/dL

Bilirubin: Negative

Blood: Negative

Nitrate: Negative

Test Usage

To screen for urine abnormalities; to manage renal disease, urinary tract infections and other diseases

Methodology

Dipstick, visual, and microscopic

Turn Around Time

1 day

Test Setup

Mon-Sat

CPT Code

81001

Specimen Stability

Refrigerated 3 days

URINALYSIS-ROUTINE**Test Code**

712

Specimen Requirements

Collect specimen in yellow tube

Reference Range**Dipstick:**

Color: Yellow Appearance:

Clear Specific Gravity: 1.001-1.035

pH: 5.0 to 9.0

Leukocyte esterase: Negative

Protein: Negative

Glucose: Negative

Ketones: Negative

Urobilinogen: 0.2 to 1.0 mg/dL

Bilirubin: Negative Blood:

Negative Nitrate: Negative

Test Usage

To screen for urine abnormalities; to manage renal disease, urinary tract infections and other diseases

Methodology

Dipstick and visual

Turn Around Time

1 day

Test Setup

Mon-Sat

CPT Code

81003

Specimen Stability

Refrigerated 3 days

URINE CULTURE AND COLONY COUNT**Test Code**

762

Specimen Requirements

Collect urine in an integrated sample collection cup and transfer to a lime green top tube. Send only the lime green top tube and dispose of the collection cup as a contaminated sharp.

Reference Range

No growth

Test Usage

To isolate, identify and determine antimicrobial sensitivity of potential pathogens from a urine specimen

Methodology

Culture, aerobic

Turn Around Time

2 days

Test Setup

Mon-Sat

CPT Code

87086

Specimen Stability

2 days

URINE NITROGEN, URINE RANDOM**Alternate Name/Abbreviation**

UrN Uran

Test Code

151R

Specimen Requirements

Clear Urine Random

Other Requirements

None

Reference Range

None

Exception Value

N/A

Test Usage

Diagnosis and treatment of certain renal and metabolic disorders. Used as a measure of kidney function and of prerenal and postrenal conditions also

Methodology

Enzymatic

Interferences

Turbidity

Turn Around Time

24hrs

Test Setup

Daily

LOINC Code

3095-7

CPT Code

84540

Confirmatory Test

N/A

Specimen Stability

Refrigerated 5 days at 2-8° C

PROTEIN, TOTAL URINE**Test Code**

114H - PROTEIN,TOTAL URINE 24 HR

114U - PROTEIN, TOTAL URINE RANDOM

114P - PROTEIN, TOTAL URINE TIMED

Specimen Requirements

Urine

Other Requirements

No preservatives for urine

Reference Range

0.0-12.0 mg/dL

30-150 mg/24 hr

Test Usage

Used for diagnosis and treatment of diseases associated with renal, cardiac and thyroid functions.

Methodology

Colorimetric

Test Setup

Mon-Sat

LOINC Code

2888-6

CPT Code

84156

Specimen Stability

Refrigerated 5 days at 2-8° C

VANCOMYCIN RESISTANT ENTEROCOCCUS SCREEN**Alternate Name/Abbreviation**

VRE Screen

Test Code

765

Specimen Requirements

Collect specimen in a blue swab. Keep specimen at ambient temperature. Indicate source

Reference Range

No VRE isolated

Test Usage

To isolate, and identify Vancomycin resistance Enterococcus from various sites

Methodology

Culture

Turn Around Time

2 days

Test Setup

Mon-Sat

CPT Code

87081

Specimen Stability

3 days

VANCOMYCIN, PEAK**Test Code**

423P

Performed only at Spectra Southaven

Specimen Requirements

0.5 mL serum (Red Top Tube - No Gel). Tube must be labeled Peak. Peak is drawn 30-60 minutes after IM injection or 60 minutes after IV infusion

Exception Value

Tier 3 > 40 mcg/mL

Alert Value

Tier 2 > 80 mcg/mL

Test Usage

Monitoring for compliance, efficacy and possible toxicity

Methodology

Chemiluminescence

Interferences

Gross hemolysis

Turn Around Time

2 - 3 days

Test Setup

Mon-Sat

LOINC Code

4090-7

CPT Code

80202

Therapeutic Range

Peak 20-40 mcg/mL

Specimen Stability

Refrigerated 6 days at 2-8°C

VANCOMYCIN, RANDOM**Test Code**

423R

Performed only at Spectra Southaven

Specimen Requirements

0.5 mL serum (Red Top Tube - No Gel). Tube must be labeled Random

Exception Value

Tier 3 > 40 mcg/mL

Alert Value

Tier 2 > 80 mcg/mL

Test Usage

Monitoring for compliance, efficacy and possible toxicity

Methodology

Chemiluminescence

Interferences

Gross hemolysis

Turn Around Time

2 - 3 days

Test Setup

Mon-Sat

LOINC Code

20578-1

CPT Code

80202

Therapeutic Range

10-40 mcg/mL

Specimen Stability

Refrigerated 6 days 2-8° C

VANCOMYCIN, TROUGH**Test Code**

423T

Performed only at Spectra Southaven

Specimen Requirements

0.5 mL serum (Red Top Tube - No Gel). Trough drawn within 30 minutes of next scheduled dose. Tube must be labeled Trough

Alert Value

Tier 2 > 20 mcg/mL

Test Usage

Monitoring for compliance, efficacy and possible toxicity

Methodology

Chemiluminescence

Interferences

Gross hemolysis

Turn Around Time

2 - 3 days

Test Setup

Mon-Sat

LOINC Code

4092-3

CPT Code

80202

Therapeutic Range

10.0 - 20.0 mcg/mL

Specimen Stability

Refrigerated 6 days 2-8° C

VARICELLA-ZOSTER VIRUS Ab, IgG**Alternate Name/Abbreviation**

VZV IgG

Test Code

323

Specimen Requirements

SST

Reference Range

0.0 – 134.9

Test Usage

Used as an aid in the determination of serological status to Varicella- Zoster virus

Methodology

Chemiluminescence

Interferences

Gross hemolysis, lipemia, samples containing particulate matter and obvious microbial contamination

Turn Around Time

2 days

Test Setup

Tue-Sat

LOINC Code

15410-4

CPT Code

86787

Specimen Stability

Refrigerated 7 days at 2-8°C

VITAMIN B12

Test Code

374

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Fasting specimen preferred

Reference Range

211 - 911 pg/mL

Test Usage

Diagnosis of excess or deficiency of Vitamin B12

Methodology

Chemiluminescence

Interferences

Hemolyzed specimen

Turn Around Time

2 days

Test Setup

Mon-Sat

LOINC Code

2132-9

CPT Code

82607

Specimen Stability

Refrigerated 5 days at 2-8°C

VITAMIN D, 1,25 DIHYDROXY

Alternate Name/Abbreviation

1,25-OH Vitamin D, 1,25 Vitamin D

Test Code

364A

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Reference Range

19.9-79.3 pg/mL

Test Usage

This test is primarily indicated during patient evaluation for hypercalcemia and renal failure. A normal result does not rule out Vitamin D deficiency.

The recommended test for diagnosing Vitamin D deficiency is Vitamin D 25-hydroxy.

Methodology

Chemiluminescence

Interferences

Gross Hemolysis, Icteric or Lipemic. Samples containing particulate matter and obvious microbial contamination

Turn Around Time

48 hours from receipt of specimen

Test Setup

Tue-Fri

LOINC Code

62290-2

CPT Code

82652

Specimen Stability

Refrigerated 7 days at 2-8°C

VITAMIN D, 25 HYDROXY

Alternate Name/Abbreviation

Calciferol, 25 OH-D

Test Code

373

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

Fasting specimens are recommended, but not required

Reference Range

30 - 100 ng/mL

Test Usage

Vitamin D insufficiency and Vitamin D deficiency are recognized as significant causes of metabolic bone disease in older adults. Maintaining the concentration of calcium and phosphate within the normal range is the major role of Vitamin D. Vitamin D is required for proper bone health and helps reduce fractures in older adults.

Vitamin D, 25 OH Status Classification:

Deficiency: <10 ng/mL

Insufficiency: 10-30 ng/mL

Sufficiency: 30-100 ng/mL

Toxicity: > 100 ng/mL

Methodology

Chemiluminescence

Interferences

Hemolysis and lipemia

Turn Around Time

3 days

Test Setup

Tue-Fri

LOINC Code

1989-3

CPT Code

82306

Specimen Stability

Refrigerated 7 days at 2-8°C

VLDL (CALC)**Alternate Name/Abbreviation**

Very Low Density Lipoprotein

Test Code

144

Specimen Requirements

0.5 mL serum (SST Gel Tube)

Other Requirements

1. Fasting specimen preferred (fasting overnight 12-14 hours)
2. Calculated from Triglyceride

Reference Range

10 - 30 mg/dL

Test Usage

Aids in the determination of abnormal distribution and/or concentration of lipoproteins

Methodology

Calculations from Triglyceride: $VLDL = \text{Triglycerides} / 5$

This calculation is not valid for specimens with triglyceride levels > 400 mg/dL

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

13458-5

CPT Code

Calculation

WBC DIFFERENTIAL**Alternate Name/Abbreviation**

Included as part of a Complete Blood Count (CBC)

Test Code

202

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood)

NOTE: One tube is sufficient for all hematology tests

Reference Range

Neutrophils: 40.0-75.0%
Lymphocytes: 19.0-48.0%
Monocytes: 3.0-10.0%
Eosinophils: 0.0-7.0%
Basophils: 0.0-1.5%
LUC: 0.0-4.0%

Test Usage

1. Aids in the diagnosis, classification and staging of leukemia
2. Aids in the diagnosis and classification of infection

Methodology

Flow Cytometry

Interferences

1. Hemolyzed specimen
2. Clotted specimen
3. Incompletely filled tube
4. Circulating micromegakaryocytes may be counted as white blood cells
5. Incomplete RBC lysis in the peroxidase channel may be observed in specimens with elevated serum urea nitrogen (BUN > 75 mg/dL)

Turn Around Time

1 day

Test Setup

Mon-Sat

CPT Code

85004

WHITE BLOOD CELL COUNT**Alternate Name/Abbreviation**

WBC, also included as a part of a Complete Blood Count (CBC) (Hemogram)

Test Code

204

Specimen Requirements

1 full Lavender Top Tube (EDTA whole blood) **NOTE:** One tube is sufficient for all hematology tests

Reference Range

4.8 - 10.8 thous/mcL

Exception Value

Tier 3 <2.0 >30.0 1000/mcL
Tier 4 >20.0 1000/mcL

Test Usage

1. Evaluation of the symptoms of infection
2. Aids in the diagnosis of immunosuppression

Methodology

Flow Cytometry

Interferences

1. Hemolyzed specimen
2. Clotted specimen
3. Incompletely filled tube
4. Samples with nucleated RBCs may falsely elevate the WBC count

Turn Around Time

1 day

Test Setup

Mon-Sat

LOINC Code

6690-2

CPT Code

85048

WOUND CULTURE**Alternate Name/Abbreviation**

Includes Gram Stain

Test Code

763

Specimen Requirements

Collect specimen in a blue swab. Keep specimen at ambient temperature. Indicate source

Reference Range

No growth

Test Usage

To isolate, identify and determine antimicrobial sensitivity of potential pathogens from a wound site

Methodology

Culture, aerobic and anaerobic

Turn Around Time

3 days, interim reports are issued each day

Test Setup

M-Sun

CPT Code

87071 87073

Specimen Stability

3 days

ZINC**Test Code**

505

Specimen Requirements

2.0 mL serum (Clear Top Tube)

Reference Range

60-130 mcg/dL for ICP-MS, 63- 114 mcg/dL for AA Furnance

Exception Value

Tier 4 >200 mcg/dL

Test Usage

Determination of zinc deficiency

Methodology

Inductively Coupled Plasma Mass Spectrophotometry (ICP-MS), Southaven Lab & AA Furnace (ETAAS-Z), Rockleigh Lab

Interferences

Hemolysis and Lipemia

Turn Around Time

5 days

Test Setup

Wed-Sat

LOINC Code

5763-8

CPT Code

84630

Specimen Stability

Refrigerated 10 days 2-8° C
