

Experts



Nutrition



Environment



RIORDAN CLINIC

Utilizing natural and integrative approaches to achieve real health

LABORATORY

Providing on-site state-of-the-art analysis and diagnostic services for patients, physicians and hospitals

HEALTHMARKERS WELLNESS PROGRAM

Benchmarking the biological foundations of your health

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Discovering diagnostic methods and treatment modalities to improve global health

NUTRIENT STORE

Offering pharmaceutical-grade, physician-approved nutrients, natural products and educational materials







316.682.3100 | 800.447.7276 3100 N. Hillside | Wichita, KS 67219 RiordanClinic.org/Laboratory





Laboratory Testalog

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Cytotoxic Basic List								
FRUITS VEGETABLES PROTEINS SUGARS ADDITIVES								
Apple	Corn	Chicken	Sugar, Cane	MSG				
Banana	Onion	Egg, Whole	Grains	Nutrasweet				
Grape, Seedless	Potato, White	Milk, Cow	Flour, White	Spices/Herbs				
Orange	Tomato	BEVERAGES	Oat	Chocolate				
Legumes		Coffee	Rice	Vanilla				
Soybean		Tea	Wheat, Whole	Yeast				

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Cytotoxic Standard List 1						
FRUITS	VEGETABLES	NUTS AND SEEDS	SPICES/HERBS	ADDITIVES		
Apple	Asparagus	Almond	Chocolate	BHA/BHT		
Banana	Avocado	Cashew	Mustard	Chlorine		
Blueberry	Bean, String	Pecan	Pepper, Black	Dye, Blue		
Cantaloupe	Broccoli	BEVERAGES	Vanilla	Dye, Green		
Coconut	Cabbage	Coffee	Yeast	Dye, Red		
Grape, Seedless	Carrot	Tea	NUTS AND SEEDS	Dye, Yellow		
Grapefruit	Cauliflower	PROTEINS	Almond	Fluorine		
Lemon	Celery	Beef	Cashew	MSG		
Orange	Cucumber	Chicken	Pecan	Nutrasweet		
Peach	Garlic	Pork	BEVERAGES	Sodium Nitrate		
Pear	Lettuce	Turkey	Coffee	Splenda		
Pineapple	Mushroom	Codfish	Tea	Sulfur Dioxide		
Strawberry	Olives	Salmon	SUGARS	Tobacco		
Watermelon	Onion	Shrimp	Fructose	GRAINS		
LEGUMES	Pea, Green	Tuna	Honey	Corn		
Bean, Navy	Pepper, Green	Egg, Whole	Sugar, Cane	Flour, White Wheat		
Bean, Pinto	Potato, Sweet	Cheese, Cheddar	Sugar, Maple	Hops		
Peanut	Potato, White	Cheese, Cottage	OTC MED.	Oats		
Soybean	Spinach	Cheese, Mozz.	Aspirin	Rice		
	Squash	Milk, Cow	Tylenol	Rye		
	Tomato	Lectin		Wheat, Whole		

Cytotoxic Standard List 2						
FRUITS	VEGETABLES	SPICES/HERBS	NUTS AND SEEDS			
Apricot	Bean Sprouts	Bacon	Basil	Canola Oil		
Blackberry	Beet	Casien	Bay Leaves	Brazil		
Cherry	Brussel Sprouts	Catfish, Channel	Carob Powder	Flaxseed		
Cranberry	Catsup	Clam	Cayenne Pepper	Pistachio		
Date	Chili Pepper	Crab	Cinnamon	Poppyseed		
Grape, Concord	Eggplant	Duck	Ginger	Safflower Oil		
Honeydew Melon	Okra	Flounder	Horseradish	Sesame Seeds		
Lime	Onion, Green	Haddock	Licorice	Sunflower Seeds		
Nectarine	Pumpkin	Ham	Nutmeg	Walnuts		
Plum	Radish	Lamb	Oregano	GRAINS		
Pomegranate	Turnip Greens	Liver, Beef	Paprika	Amaranth		
Raspberry	Yam	Liver, Chicken	Peppermint	Barley		
Tangerine	Zucchini	Lobster	Rosemary	Buckwheat		
BEVERAGES	ADDITIVES	Oyster	Sage	Malt		
Beer	Caffeine	Perch, Ocean	LEGUMES	Millet		
Pepsi/Coca-Cola	Gelatin	Red Snapper	Bean, Lima	Popcorn		
Dr. Pepper	Glycerol	Sardine	Lentils	Quinoa		
Sugars		Scallops	Pea, Chick	Rice, Wild		
Dextrose		Sole		Tapioca		
Stevia		Trout, Rainbow				
		Yogurt				

RiordanClinic.org/Laboratory



Bio-Center Laboratory (BCL)

Introduction to Our Services

Bio-Center Laboratory (BCL) was established in 1975 and has dedicated itself to providing accurate clinical assays focusing on nutritional medicine. We specialize in a wide variety of nutritional tests including many vitamins, minerals, RBC fatty acids and amino acids. We also test for urine pyrroles, whole blood histamine, cytotoxic food sensitivities and many others.

Client service representatives are available Monday through Thursday from 8 AM to 5 PM and Friday 9 AM to 4 PM CST. Our toll free telephone number is 800-494-7785. For local calls, please call 316-684-7784. Our fax number is 316-682-2062.

Licensure / Certification

CLIA 17D0648333

Medicare 008052

Proficiency Testing

College of American Pathologists: Trace Metals, Virology. American Association of BioAnalysts: Chemistry, Parasitology, Hematology, Urinalysis, Special Chemistries and Tumor Markers surveys.

Centre de Toxicologie du Quebec: Mineral surveys.

Policies

- specimens are retained for at least one month.
- Please review, "Causes for Rejection," accompanying each assay.
- All test requirements and availability are subject to change without notice.

Client Billing

- the change occurs.
- the specimen) to the lab, a receipt will be issued for submission by the patient to their insurance.
- should accompany the specimen and requisition. Payment must accompany non-covered services.

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Federal ID 48-0840415

• Test Cancellation: A test may be cancelled at any time prior to reporting the result and you will be charged a \$40 cancellation fee. The request to cancel must be in writing, signed and faxed to us at 316-682-2062.

 Repeat Testing: In most cases, unusual test results are automatically repeated by the laboratory and noted as such on the final report. If you question a result, please call the laoratory and we will further evaluate the result and repeat the test if necessary, at no charge, provided that we have sufficient quantity of specimen. For the most part,

Unacceptable Specimens: If we determine that a specimen is unacceptable, we will call you with our concerns.

 Turn Around Time (TAT): Vitamin C assays are performed daily. The usual TAT for all other assays is ten days or less. Repeat testing due to unusual results may also affect the TAT. The days that tests are performed may vary. If you have unusual circumstances or needs, please call us and we will make every effort to accommodate your concerns.

• Fees are subject to change without prior notification. However, we will make every effort possible to notify you when

• Personal checks, business checks, or credit cards are acceptable payment options. If paying by credit card: include the credit card number, date of expiration and card security code (CSC), the name of the credit card holder (as printed on the credit card), the card holder's signature, and the amount of payment to be charged to the account. BCL does not file claims to private insurance carriers or Medicaid. If a patient sends personal payment (along with

 While BCL is a participating member of Medicare, Medicare has advised us to not file known non-covered services. Medicare requires a Medicare waiver signed by the patient on the date of service for covered services only and



Client Billing Options

Option 1 -- Payment Included with Specimen Submittal: Payment from the patient or medical facility accompanies the specimen shipment. Patient's full name, address, date of birth, gender, and telephone number are required for processing the payment. Doctor's orders, if applicable, must be included with the payment and a properly filled out requisition. All test results will be sent to the ordering physician. Therefore, the physician's full name & degree (MD, ND, OD, etc...), address, telephone number (and fax number, if faxed reports are also desired) must be submitted with all specimens. Bio-Center Laboratory will send a receipt to the patient for insurance reimbursement.

Option 2 -- Physician/Clinic/Reference Lab Billing: All new accounts must send a check or valid credit card information with shipment of the first specimen. For future shipments, BCL will invoice the referring facility each month (as needed) for each assay ordered. Payment is due within 30 days of invoice. The referring facility or physician's full name & degree (MD, ND, OD, etc...), the physician/facility's address and telephone number (include fax number, if faxed reports are also desired) must be submitted with all specimens. Bio-Center Laboratory will send a receipt to the referring facility/ physician. Note: If neither box is checked, the ordering physician will be billed and will be responsible for payment.

Drawing and Processing Specimens

- General fasting specimens require a 12 14 hours fast. Drinking water is allowed during a general fast. ٠
- If fasting for a cytotoxic food sensitivity test, the fast prohibits the use of tobacco products. Bottled water is the only beverage allowed during the fast. The patient's teeth should not be brushed with toothpaste brushing with bottled water is acceptable) the morning of the collection. BCL must be notified 1 - 2 days prior to collection of cytotoxic food sensitivity specimens for approval of specimen arrival dates. Specimen must be shipped same day as collection, Monday - Wednesday only.
- Serum specimens require that whole blood in the amount of 2 ½ times the required amount of serum be drawn. ٠ For example, if 2 mL serum is required, then at least 5 mL whole blood needs to be drawn. Individual patient hematocrits may affect the amount to be drawn. Unless noted, all serum specimens should be separated from cells by centrifugation within 45 minutes of venipuncture.
- Specimens drawn in ACD, EDTA, or heparin tubes contain anticoagulant. To prevent the specimen from clotting, ٠ the contents of these tubes should be mixed thoroughly immediately after being drawn by inverting the tube gently at least six times.
- All volumes listed are pipettable volumes (i.e., extra volume must be included to allow for pipetting of specimen). ٠
- Minimum volume specimens allow the sample to be tested once with no option for repeat analysis. ٠
- Preferred volumes allow specimens to be tested several times. These volumes should always be sent unless difficulty in obtaining specimen is incurred, and use of minimum volume is the only option available.
- Specimens that need to be protected from freezing should never be placed directly next to an ice pack, or cells will burst (hemolysis will result), and the specimen will be unusable. To protect these specimens from freezing, separate the specimen from the ice pack with 1/2 inch of padding (such as bubble wrap or paper towels). Shipping containers with unfrozen whole blood specimen should be tightly packed to prevent jostling during shipping. Add newspaper or other padding as needed.
- When storage instructions state specimen is to be frozen, the specimen should be frozen and then later shipped with the (frozen) ice pack included in our kits. Specimens shipped in this manner will arrive in a cold or semi-frozen condition. No additional ice packs are needed. If dry ice is required for shipment of any specimen, instructions will state this requirement.
- Light-protected specimens should be placed in an amber plastic transport tube. If using a clear or opaque plastic ٠ transport tube, wrap foil around the tube.
- Centrifuge time is 10 minutes at approximately 3000 rpm. •

Vitamin C Screen, Urine

CPT 81099 Synonyms Urine C Patient Preparation None Special Instructions None Specimen Volume 2 mL urine; light protected Minimum Volume 0.5 mL **Collection Container** Clean container Transport Container Plastic transport tube; light protected Storage & Transport Instructions Freeze within 30 minutes of collection; keep frozen Causes for Rejection specimen not kept frozen; specimen not protected from light

Vitamin D, 25-Hydroxy

CPT 82306 Synonyms 25-Hydroxycalciferol; 25-OH-D Patient Preparation None Special Instructions None **Specimen Volume** 1 mL serum; light protected Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate or Freeze Causes for Rejection Gross hemolysis

Vitamin E

CPT 84446 Synonyms Alpha Tocopherol Patient Preparation None Special Instructions None Specimen Volume 1 mL serum; light protected Minimum Volume 0.2 mL Collection Container SST or red-stopper tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Yeast Species (Oral)

CPT 87201 Patient Preparation None Special Instructions Swish 10 mL sterile water in mouth for 1 minute then spit back into collection container Specimen Volume 10 mL mouth wash Minimum Volume Same Collection Container Sterile collection cup Transport Container Sterile collection cup Storage & Transport Instructions Refrigerate Causes for Rejection Frozen specimen

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Zinc, RBC

CPT 84630
Patient Preparation None
Special Instructions None
Specimen Volume 6 mL Heparin whole blood
Minimum Volume 1 mL
Collection Container Heparin tube
Transport Container Collection container
Storage & Transport Instructions Refrigerate or freeze
Storage & Transport Instructions Refrigerate. DO NOT FREEZE!
Causes for Rejection Frozen specimen

Zinc, Serum

CPT 84630

Synonyms Serum Zn Patient Preparation None Special Instructions None Specimen Volume 2 mL serum Minimum Volume 1 mL Collection Container Trace element non-additive tube Transport Container Metal-free plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Moderate or excessive hemolysis



Vitamin B3

CPT 84591 Synonyms Niacinamide; Pyridine Patient Preparation None Special Instructions None **Specimen Volume** 4 mL Heparin whole blood; light protected Minimum Volume 2 mL **Collection Container** Heparin tube Transport Container Amber plastic transport tube Storage & Transport Instructions Freeze Causes for Rejection Gross hemolysis

Vitamin B5

CPT 84591 Synonyms Pantothenic acid Patient Preparation None Special Instructions None **Specimen Volume** 2 mL Heparin whole blood; light protected Minimum Volume 1 mL **Collection Container** Heparin tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Causes for Rejection Frozen specimen

Vitamin B6

CPT 84207 Synonyms Pyridoxine; Erythrocyte AST/EGOT Patient Preparation None Special Instructions None **Specimen Volume** 2 mL Heparin whole blood; light protected Minimum Volume 1 mL **Collection Container** Heparin tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Causes for Rejection Frozen specimen

Vitamin C, Plasma

CPT 82180

Synonyms Plasma Ascorbic Acid Patient Preparation None

Special Instructions Separate plasma from cells and process

specimen immediately after collection. Ratio of plasma to 3%

metaphosphoric acid (MPA) must be maintained, so care must be taken

to add exact amount of plasma to the provided 4.5 mL aliquot of MPA.

Plasma-MPA specimen is stable at least 3 months if kept frozen. Specimen Volume 3 mL EDTA or Heparin plasma added to 4.5 mL

cold MPA. Mix vigorously. Minimum Volume 2 mL plasma added to 3 mL (adjusted volume) cold MPA. If minimum volumes of plasma & MPA are used, it must

be noted on the requisition as (2 mL plasma + 3 mL MPA used). Collection Container EDTA or Heparin tube

Transport Container Plastic transport tube

Storage & Transport Instructions Freeze

Causes for Rejection Gross hemolysis; insufficient specimen; specimen not frozen; incorrect ratio of plasma to MPA

Vitamin C, Plasma - Post IVC Specimen **CPT** 82180

Synonyms Plasma Ascorbic Acid

Patient Preparation None

Special Instructions Note on requisition grams of IVC given. Draw specimen from site on opposite arm used for IVC immediately after completed infusion. Separate plasma from cells and process specimen immediately after collection. Ratio of plasma to 3% metaphosphoric acid (MPA) must be maintained, so care must be taken to add exact amount of plasma to the provided 4.5 mL aliquot of MPA. Plasma-MPA specimen is stable at least 3 months if kept frozen.

Specimen Volume 3 mL EDTA or Heparin plasma added to 4.5 mL cold MPA. Mix vigorously.

Minimum Volume 1 mL plasma added to 1.5 mL (adjusted volume) cold MPA. If minimum volumes of plasma & MPA are used, it must be noted on the requisition as (1 mL plasma + 1.5 mL MPA used).

Collection Container EDTA or Heparin tube Transport Container Plastic transport tube

Storage & Transport Instructions Freeze

Causes for Rejection Gross hemolysis; insufficient specimen; specimen not frozen; incorrect ratio of plasma to MPA; grams of IVC not noted on requisition

Note: Diabetic patients who monitor blood glucose with a finger stick strip and meter: high level post I.V.C. (ascorbic acid) will cause a "FALSE POSITIVE" on the finger stick test. Wait eight hours or more to check the patient's glucose with the finger stick and meter. If a test is needed during this time, have a serum glucose performed in a certified clinical laboratory.

Specimen	Serum
Draw tube	SST or red top tube
Processing	Allow blood to clot 15 - 40 minutes p
	plastic transport tube. Discard cells.
Specimen	Plasma
Draw tube	Heparin or EDTA tube
Processing	Centrifuge specimen. Transfer plasm
	used for other testing.
0	
Specimen	Whole blood
Draw tube	Heparin or EDTA tube
Processing	Specimens can be shipped in the tu
Specimen	Urine for Indican, Pyrroles, UA and \
Collection	Use a clean disposable container for
container	the toilet immediately prior to the co
Processing	Pour appropriate amount of urine int

Specimen Submittal and Shipping

Note

- cause for rejection of specimen.
- Medicare for covered services.
- or box for transport.
- shipping arrangements.

CAUSES FOR REJECTION: Specimens not labeled with date and name of patient & test; requisition not completed properly; improper specimen drawn (example: plasma specimen sent when serum is specified); specimen maintained or received at improper temperature; inadequate or inappropriate volume. Additional causes for rejection may be listed under individual test information.

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prior to centrifuging. Centrifuge specimen. Transfer serum to

na to plastic transport tube. Discard cells, unless RBC's are to be

ube they were drawn in.

Vitamin C.

or collection. It is advisable to urinate a small amount of urine into ollection of the urine specimen for the UA.

to a clean plastic screw capped transport tube.

Pyrrole transport tubes are amber and must contain ascorbic acid crystals for stability. Wrap tube in foil for light protection if amber tube is not available.

• REQUIRED: All specimen tubes and slides must be labeled with the patient's name & name of test being requested, and must be accompanied by a completed requisition for testing. Required information on the requisition consists of the following: patient's name; patient's date of birth and gender; date & time of specimen collection. If the test is ordered by a physician, the physician's name, physician's address and phone number (& fax number, if applicable) are also required. Use an "X" to mark the square in front of the test being requested. Failure to meet these minimum requirements may be

BCL does not require a physician's order for laboratory testing, however a physician's order is required in order to file services with Medicare and other health insurance providers. Patient-ordered test results will be sent to the patient. Results of testing ordered by a physician will be sent directly to the physician. Results will not be sent to a patient unless requested by the ordering physician. Diagnosis should be printed legibly. Also include the numerical ICD-9 code if the patient is sending payment and wishes to receive a receipt for insurance reimbursement, or if BCL is to file services with

In case of leakage during shipping, all specimens should be transported within a sturdy plastic bag with absorbent material placed next to the specimen. The specimen bag and frozen ice pack (if required) should then be sealed in the bubble bag provided (bubble bag not required for specimens shipped in styrofoam boxes) and then placed in a sturdy outer container

Note: Specimen must be shipped Monday – Thursday by FedEx overnight delivery. The lab is closed on weekends and holidays. Avoid shipping specimens around these days. Place the box containing the specimen inside the FedEx Clinical Pak provided. Write your name and address in the "From" section on the prepaid label. Keep the orange receipt copy for your records. You may drop off the package at any FedEx or FedEx Kinko's location. For FedEx shipping questions, call 1-800-GOFEDEX If you are located outside of the Continental United States, you must make your own





BIO-CENTER LABORATORY

BIO-GENTER LABORATORT	BCL use only			
3100 N Hillside, Wichita, KS 67219	Accession #			
(316)684-7784 or (800)494-7785; FAX: (316) 682-2062	Acct# Rec. by BCL			
www.biocenterlab.org	Chart# Date Rpt			

Patient:		DOB:	M/F:
Last	First	Middle Initial	
Physician:		Collection Date/Time:	

Date/Time of Last Food:

_Comments/Diagnosis:

Test	Fee	Х	Test	Fee	Х	Test
Misc. Lab Tests			Vitamins/Nutrients			Elements - Serum
CEA	142		A,C,E	196		Calcium
Cholesterol	43		A, C, E, B12, Folate	284		Chromium
Coenzyme Q10	121		A, E, Beta Carotene, Lutein,	282		Copper
Creatinine	52		Lycopene			Magnesium
CRP-hs	108		B1, B2, B3, B5, B6 Assessment	316		Manganese
DHEA-S	130		B12 & Folate	161		Selenium
Estradiol	159		Folic Acid (Folate)	102		Zinc
Glucose	43		Lutein	129		Profiles
G6PD	112		Lycopene	127		Amino Acid – Essential
Glutathione - RBC	111		Vit. A	127		Amino Acid -Fractionated
Hemoccult – ICT	73		Vit. B1 – Thiamine	116		Candida Ab's (IgG,A,M)
Hemoglobin A1C	102		Vit. B2 – Riboflavin	116		CBC
Histamine	184		Vit. B3 – Niacin	116		Fatty Acids – EFA RBC
Homocysteine	130		Vit. B5 – Pantothenic Acid	116		Hair Tissue Analysis
Insulin	126		Vit. B6 – Pyridoxine	116		Lipid Profile
Progesterone	146		Vit. B12 – Cobalamine	103		Parasitology
PSA	116		Vit. C – Plasma	89		Stool Exam (1 Collection)
PSA, Free PSA,			Vit. C – Post IVC Plasma	89		Stool Exam (3 Collection)
Ratio	201		Vit. D	130		. , ,
Testosterone	159		Vit. E	115		Cytotoxic Food Sensitivity
Yeast Species (Oral)	75		Elements RBC			Basic Cytotoxic Standard List #1
Thyroid			Copper	105		
TSH	118		Magnesium	105		Standard List #2
Free (FT3)	130		Manganese	105		Individual Cytotoxic
Free (FT4)	164		Selenium	105		Special Prep Cytotoxic
Thyroid Profile			Zinc	105		Urine
(TSH, FT3, FT4)	263		Mg, Zn, Cu	195		Boron
Thyroid Antibodies	234		Mg, Zn, Cu, Mn, Se	284		Indican
			3, , , , , , , , , , , , , , , , , , ,			Pyrroles (1 Collection)
						Pyrroles (3 Collections)

Vitamin A

CPT 84590 Synonyms Retinol Patient Preparation None Special Instructions None Specimen Volume 1 mL serum; light protected Minimum Volume 0.2 mL Collection Container SST or red-stopper tube **Transport Container** Amber plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Vitamin A, C, E Mini Profile

CPT 82607 CPT 84590; 82180; 84446 Synonyms Antioxidant Mini Profile Synonyms Cobalamin Patient Preparation None Patient Preparation None Special Instructions See instructions for vitamins A, E & Plasma C. Special Instructions None Vitamins A & E may share the same specimen tube. Specimen Volume 1 mL serum; light protected Minimum Volume 0.2 mL Vitamin A, C, E, B12, Folate Profile Collection Container SST or red-stopper tube **CPT** 84590; 82180; 84446; 82607; 82746 Transport Container Amber plastic transport tube Patient Preparation None Storage & Transport Instructions Refrigerate or freeze **Causes for Rejection** Hemolysis **Special Instructions** See instructions for vitamins A, E, B12, Folate

& Plasma C. Vitamins A, E, B12 & Folate may share the same specimen tube.

Vitamin A, E, Beta Carotene, Lutein, Lycopene Profile

CPT 84590; 84446; 82380; 82491 (x2) Synonyms Lipid Soluble Antioxidant Profile Patient Preparation None Special Instructions None **Specimen Volume** 3 mL serum; light protected Minimum Volume 1 mL Collection Container SST or red-stopper tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Vitamin B Assessment Profile

CPT 84425; 84252; 84591; 84207 Profile Includes Vitamins B1, B2, B3, B5, B6 Patient Preparation None Special Instructions See instructions for Vitamins B1, B2, B3, B5 & B6.

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Strontium

UA + Vit. C

36

105

105

105

105

105

105

155

345

148

61

242

116

119

88

176

158

337

337

41

58

104

62

79 158

104

50

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Vitamin B1

CPT 84425 Synonyms Thiamine Patient Preparation None Special Instructions None Specimen Volume 4 mL Heparin whole blood; light protected Minimum Volume 2.0 mL **Collection Container** Heparin tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Causes for Rejection Frozen specimen

Vitamin B12

Vitamin B12, Folate Profile

CPT 82607; 82746 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum; light protected Minimum Volume 0.4 mL Collection Container SST or red-stopper tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Hemolysis

Vitamin B2

CPT 84252 Synonyms Riboflavin Patient Preparation None Special Instructions None Specimen Volume 4 mL Heparin whole blood, light protected Minimum Volume 2.0 mL **Collection Container** Heparin tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate. DO NOT FREEZE! **Causes for Rejection** Frozen specimen



Trace Elements – Urine, Post Chelation UMEP

CPT 82108, 82310, 82300, 82495, 82525, 83540, 83735, 83785, 83655, 84630

Profile Includes Aluminum; Calcium; Cadmium; Chromium; Copper; Iron; Magnesium; Manganese; Lead; Zinc; Total 24-hour Volume

Patient Preparation Post chelation 24-hour collection begins at same time as the chelation therapy IV is begun. Patient must empty bladder immediately prior to IV. Urine must be collected for a full 24-hour period – including during the IV therapy, if necessary. 24hour collection period begins immediately after patient has urinated (but not collected) to empty his/her bladder. Patient should note date & time in order to collect urine for a full 24-hour period. Special Instructions Results are based upon a full 24-hour collection. The patient must collect all urine during the 24-hour period. If, for some reason, the patient is unable to collect urine for a full 24 hours, please note the length of time of collection on the requisition or the approximate amount of urine sample lost due to non-collection.

Specimen Volume Measure the urine to obtain the 24-hour volume. Note total volume of 24-hour specimen and date & time of completion on requisition. Mix the 24-hour urine well by shaking the gallon jug before pouring an aliquot of 150 mL into the transport container.

Preferred Volume 25 mL aliquot

Minimum Volume 11 mL aliquot

Collection Container One-gallon mineral-free amber plastic jug. For convenience, a mineral-free cup may be used to catch urine and then be poured into the gallon jug. Do not rinse the collection cup between collections (trace minerals may be in the rinse water). Instead, seal cup with mineral-free plastic lid in-between use during the 24-hour collection period.

Transport Container Acid-washed mineral-free plastic t ransport bottle

Storage & Transport Instructions Refrigerate specimen during the 24-hour collection process. Refrigerate of freeze aliquot f or transport.

Causes for Rejection Total 24-hour urine volume not noted on requisition; non-mineral-free containers used for collection & transport

Trace Elements - Urine, Pre & Post Chelation UMEP

CPT 82108, 82310, 82300, 82495, 82525, 83540, 83735, 83785, 83655, 84630

For Pre collection: 24-hour collection period begins immediately after patient has urinated (but not collected) to empty his/her bladder. Patient should note date & time in order to collect urine for a full 24-hour period. Urine must be collected for a full 24hour period prior to having the chelating agent administered to the patient. Pre & Post Aliquots must be properly labeled when submitted. Both specimens must be submitted together.

TSH

CPT 84443

Synonyms Thyroid-Stimulating Hormone Patient Preparation None Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.5 mL **Collection Container** SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Urinalysis + Urine Vitamin C

CPT (81002, if without urine sediment microscopy (81000, if with urine sediment microscopy); 81009

Synonyms UA + C

Profile Includes Color, appearance, & specific gravity are recorded. Dipstick testing includes: leukocyte esterase; nitrite; pH; protein; glucose; ketones; urobilinogen; bilirubin; blood (intact RBC); hemoglobin (lysed RBC); urine Vitamin C. Confirmatory tests are run if protein, ketones, or bilirubin are abnormal on dipstick test. Any abnormal color, appearance, or readings (except pH) on dipstick will be followed up with a microscopic analysis of the urine sediment.

Patient Preparation None

Special Instructions First morning urine is preferred, but not required. Wash hands prior to collection. For a midstream-catch specimen, patient should urinate a small amount of urine into the toilet, then collect urine in the collection container without stopping the urine stream. Female patients: if specimen may be contaminated with vaginal discharge or menstrual blood, the vaginal area should be thoroughly cleansed by wiping from front to back with moistened towelettes prior to collecting a urine specimen. Note on reguisition if patient is currently menstruating.

Specimen Volume 20 mL urine; midstream-catch; light protected Minimum Volume 15 mL

Collection Container Clean container

Transport Container Plastic transport tube; light protected Storage & Transport Instructions Refrigerate within 10 minutes of collection. Keep refrigerated. DO NOT FREEZE!

Causes for Rejection Contaminated specimen; frozen specimen; unrefrigerated specimen; insufficient volume; specimen not protected from light. Specimen must be received by noon on Monday - Friday following the day of collection.

First Name		Last Name		Degree
Street Address			Sui	ite Number
City			State	Zip
 Telephone		 FAX		
Patient Informatio	n		Month Day Year	
First Name	Middle Name/Initial	Last Name	// Date of Birth	Male Female
Street Address			Ар	artment Number
City	State	Zij	o Tele	 phone
I ordered this Payment encl information, it \$	/Clinic/Reference Lab at address above test online at www.biocenterlab.org. Yolosed. A receipt will be issued to you for applicable). If patient is responsible for 	You already have my paym or insurance submittal. Ple or payment, it must be sub \$	ent information. ease complete Patient Inforr pmitted with specimen. credit card purchase	
	pption will apply on approved accoun			Jayment with first
Credit Card Numbe	r		Exp. Date	

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Payment Submission Sheet





ab 3100 North Hillside Wichita, KS 67219

PATIENT NAME	
CHART #	_ DT. OF SVC
TOTAL LAB TESTS \$	
NON-COVERED LABS \$	BALANCE DUE TODAY

REQUIRED BY MEDICARE - WAIVER OF LIABILITY

(316) 682-3100

Medicare will only pay for services that it determines to be "reasonable and necessary" under section 1862(a)(1) of the Medicare law. If Medicare determines that a particular service, although it would otherwise be covered, is "not reasonable and necessary" under Medicare program standards, Medicare will deny payment for that service. Medicare does not cover some of the tests performed here, since some are consider "preventive". Medicare pays only for tests it considers "medically necessary". Medicare does not pay for routine testing or screening. I believe in your case, Medicare is likely to respond to the service(s) indicated below:

Medicare usually covers the following laboratory tests except if Medicare determines them not a medical necessity. Medicare will not pay for vitamin, mineral and nutrient testing on follow-up visits.

AMINO ACID ERANCTIONATION

BORON (URINE) CALCIUM CANDIDA IGG, IGA, IGM CANDIDA (ORAL) CO ENZYME Q10 C-REACTIVE PROTEIN (CRP) CREATININE DHEA ESSENTIAL FATTY ACIDS ESTRADIOL FOLIC ACID (FOLATE) G6PD GIARDIA/CRYPTOSPORDIUM GLUTATHIONE (RBC) HISTAMINE HOMOCYSTEINE LUTEIN LYCOPENE MAGNESIUM PROGESTERONE STOOL EXAMINATION STRONTIUM, URINE T3 FREE (UNBOUND) T4 FREE (DIRECT) TESTOSTERONE THYROID ANTIBODIES VITAMIN A VITAMIN B1 VITAMIN B12 VITAMIN B2 VITAMIN B3 VITAMIN B5 VITAMIN B6 VITAMIN C VITAMIN E

ABN (Advance Beneficiary Notice) is required for the following limited coverage tests. The patient's diagnosis does not match any of the ICD-9 codes established as eligible for coverage by Medicare. Medicare may not allow for this many laboratory tests within this time frame.

CBC CEA	COPPER FERRITIN	INSULIN LIPID PROFILE	PSA, FREE PSA	TSH URINALYSIS w/wo MICRO	ZINC Past submissions
CHOLESTEROL	GLUCOSE	MANGANESE	SELENIUM	VITAMIN D	
CHROMIUM	HEMOGLOBIN A1c	OCCULT (BLOOD)			

have determined the following test as non-covered or not medically necessary by Medicare.

HAIR ANALYSIS	PYRROLES (URINE)	VITAMIN C (URINE)
CYTOTOXIC FOOD SENSITIVITY	RBC OMEGA-3 EFA (C20-C22)	INDICAN (URINE)

BENEFICIARY AGREEMENT

My physician has notified me that he or she believes that, in my case Medicare is likely to deny payment for the services identified above for the reasons stated. If Medicare denies payment or is not primary, I agree to be personally and fully responsible for payment within 30 days. ONE TIME AUTHORIZATION

I request that payment of authorized Medicare benefits be made on my behalf to the Bio-Center Laboratory for any services furnished me by the laboratory. I authorize any holder of medical information about me to release to The Centers for Medicare & Medicaid Services (CMS) and its agents any information needed to determine these benefits or the benefits payable for related services Patient ______ Date ______

Note: Your health information will be kept confidential. Any information that we collect about you on this form will be kept confidential in our office. If a claim is submitted to Medicare, your health information on this form may be shared with Medicare. Your health information, which Medicare sees will be kept confidential by Medicare.

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Selenium, Serum

CPT 84255 Synonyms Serum Se Patient Preparation None Special Instructions None Specimen Volume 1.5 mL serum Minimum Volume 0.5 mL Collection Container Trace element non-additive tube Transport Container Metal-free plastic transport tube Storage & Transport Instructions Refrigerate or freeze

Strontium, Urine

CPT 82190 Synonyms Urine Sr Patient Preparation None Special Instructions None Specimen Volume 20 mL urine Minimum Volume 10 mL Collection Container Clean container Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze

T3, Free (Unbound)

CPT 84481 Synonyms Free Tri-iodothyronine; f-T3 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum, Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

T4, Free (Direct)

CPT 84439 Synonyms Free T4, Direct, Serum; Unbound T4 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Plasma Specimen, gross lipemia

Testosterone

CPT 84403-90 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.3 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Thyroid Antibodies

CPT 86800; 86376 Panel Includes Thyroid Antithyroglobulin Antibody, Thyroid Peroxidase (TPO) Antibodies Patient Preparation None Special Instructions None Specimen Volume 2 mL serum Minimum Volume 1 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Freeze Causes for Rejection Gross hemolysis, gross lipemia

Thyroid Panel

CPT 84481; 84439; 84443 Panel Includes Free T3, Free T4, TSH Patient Preparation None Special Instructions None Specimen Volume 2 mL serum Minimum Volume 1 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis, gross lipemia



PSA

CPT 84153 Synonyms Prostate-Specific Antigen Patient Preparation None Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Freeze Causes for Rejection Gross hemolysis

PSA, Free

CPT 84154

Synonyms Free Prostate-Specific Antigen Patient Preparation None Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Freeze Causes for Rejection Gross hemolysis

Pyrroles, Urine

CPT 84999

Synonyms Mauve Factor; Kryptopyrroles Patient Preparation (1) If first time testing for pyrroles, discontinue taking any B6 or Zinc one week prior to collecting specimen. (2) If under treatment for pyrroluria, continue taking vitamin B6 and Zinc Special Instructions None Specimen Volume Approximately 8 mL urine added to 500mg of

ascorbic acid. Stable at least 1 month if kept frozen. Minimum Volume 2 mL

Collection Container Clean container Transport Container Amber plastic transport tube or protected from light

Storage & Transport Instructions Freeze Causes for Rejection Ascorbic acid not used to maintain specimen stability

Pyrroles, Urine (3 collections)

CPT 84999 x3

See Pyrroles, Urine Special Instructions 3 collections A more comprehensive evaluation of pyrrole excretion may be done by collecting 3 specimens: Specimen #1: Collected in a calm mental state Specimen #2: Collected in an anxious mental state Specimen #3: Collected in an extreme anxious mental state. Note: Label specimens carefully with each condition

RBC Elements Profile #1

CPT 83735, 84630, 82525, 82310 Profile Includes: Magnesium; zinc; copper; calcium Patient Preparation None Special Instructions None Specimen Volume 6 mL Heparin whole blood Minimum Volume 1 mL Collection Container Heparin tube Transport Container Collection container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Causes for Rejection Frozen specimen

RBC Elements Profile #2

CPT 83735, 84630, 82525, 82310, 83785, 84255 Profile Includes: Magnesium; zinc; copper; calcium; manganese; selenium Patient Preparation None Special Instructions None Specimen Volume 6 mL Heparin whole blood Minimum Volume 2 mL Collection Container Heparin tube Transport Container Collection container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Causes for Rejection Frozen specimen

RBC Elements Profile #3

CPT 83735, 82310 Profile Includes: Magnesium; calcium Patient Preparation None Special Instructions None Specimen Volume 6 mL Heparin whole blood Minimum Volume 2 mL Collection Container Heparin tube Transport Container Collection container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Causes for Rejection Frozen specimen

Selenium, RBC

CPT 84255 Synonyms RBC Se Patient Preparation None Special Instructions None Specimen Volume 1.5 mL Heparin whole blood Minimum Volume 0.5 mL Collection Container Heparin tube Transport Container Heparin tube Transport Container Collection container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Causes for Rejection Frozen specimen

Amino Acid, Essential

CPT 82131 (x10) Profile Includes Histidine; isoleucine; leucine; lysine; methion phenylalanine; threonine; tryptophan; valine; arginine Patient Preparation Fasting Special Instructions None Specimen Volume 1.5 mL EDTA plasma Minimum Volume 0.5 mL Collection Container EDTA tube Transport Container Plastic transport tube Storage & Transport Instructions Freeze Causes for Rejection Gross hemolysis

Amino Acid, Fractionated

CPT 82131 (x25) Profile Includes Aspartic acid; glutamic acid; hydroxyproline; serine; asparagine; glycine; glutamine; taurine; histidine; citrulline; threonine; alanine; arginine; proline; a-amino-N-butyric acid; tyrosine; valine; methionine; cystine; isoleucine; leucine; phenylalanine; tryptophan; ornithine; lysine Patient Preparation Fasting Special Instructions None Specimen Volume 1.5 mL EDTA plasma Minimum Volume 0.5 mL Collection Container EDTA tube Transport Container Plastic transport tube Storage & Transport Instructions Freeze

Beta Carotene

Causes for Rejection Gross hemolysis

CPT 82380 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum; light protected Minimum Volume 0.2 mL Collection Container SST or red-stopper tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Boron, Urine

CPT 82190 Synonyms Urine B Patient Preparation None Special Instructions None Specimen Volume 20 mL urine Minimum Volume 10 mL Collection Container Clean container Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze

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Candida Antibodies IgG, IgA, IgM

	CPT 86628 (x3)
onine;	Patient Preparation None
	Special Instructions None
	Specimen Volume 0.5 mL serum
	Minimum Volume 0.2 mL
	Collection Container SST or red-stopper tube
	Transport Container Plastic transport tube
	Storage & Transport Instructions Refrigerate or freeze
	Causes for Rejection Gross hemolysis

Calcium, RBC

	CPT 82310
	Synonyms RBC Ca
	Patient Preparation None
	Special Instructions None
	Specimen Volume 6 mL heparin whole blood
	Minimum Volume 1 mL
с	Collection Container Heparin tube
	Transport Container Collection container
	Storage & Transport Instructions Refrigerate. DO NOT FREEZE!
	Causes for Rejection Frozen specimen

CEA

CPT 82378 Synonyms Carcinoembryonic Antigen Patient Preparation None Special Instructions Note whether patient is a smoker Specimen Volume 0.5 mL serum Minimum Volume 0.2 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Cholesterol, Total

CPT 82465 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis



Chromium, Serum

CPT 82495 Synonyms Serum Cr Patient Preparation None Special Instructions None Specimen Volume 0.5 mL serum Minimum Volume 0.1 mL Collection Container Trace element non-additive tube Transport Container Metal-free plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Hemolysis

Coenzyme Q10

CPT 82491 Synonyms CoQ10 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum; light protected Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Amber plastic transport tube Storage & Transport Instructions Freeze Causes for Rejection Gross hemolysis

Complete Blood Count with Differential (CBC)

CPT 85027, 85007

Synonyms CBC with Differential

Profile Includes: Automated count (white blood cells; red blood cells; hemoglobin; hematocrit; MCV; MCH; MCHC; platelets); Manual Differential

Patient Preparation None

Special Instructions Collection tube must be filled to full draw capacity to insure correct blood to anticoagulant ratio of specimen. Specimen must be shipped same day as collection. Specimens accepted Monday – Thursday only.

Specimen Volume 6 mL EDTA whole blood Minimum Volume same

Collection Container EDTA tube

Transport Container Plastic transport tube. Stable 24 hours at room temperature. Refrigerated specimens are stable 48 hours.Storage & Transport Instructions Refrigerate. DO NOT FREEZE!

Causes for Rejection Gross hemolysis; frozen specimen.

Copper, RBC

CPT 82525 Synonyms RBC Cu Patient Preparation None Special Instructions None Specimen Volume 6 mL Heparin whole blood Minimum Volume 1 mL Collection Container Heparin tube Transport Container Heparin tube Transport Container Collection container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Causes for Rejection Frozen specimen

Copper, Serum

CPT 82525

Synonyms Serum Cu Patient Preparation None Special Instructions None Specimen Volume 2 mL serum Minimum Volume 1 mL Collection Container Trace element non-additive tube Transport Container Metal-free plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Hemolysis

C-Reactive Protein (CRP) – Ultra Sensitive CPT 86141

Synonyms Cardiac-Reactive Protein Patient Preparation None Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Creatinine

CPT 82565 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Lycopene

CPT 82491 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum; light protected Minimum Volume 0.2 mL Collection Container SST or red-stopper tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Magnesium, RBC

CPT 83735 Synonyms RBC Mg Patient Preparation None Special Instructions None Specimen Volume 6 mL Heparin whole blood Minimum Volume 1 mL Collection Container Heparin tube Transport Container Collection container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Causes for Rejection Frozen specimen

Magnesium, Serum

CPT 83735 Synonyms Serum Mg Patient Preparation None Special Instructions None Specimen Volume 1.5 mL serum Minimum Volume 0.5 mL Collection Container Trace element non-additive tube Transport Container Metal-free plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Hemolysis

Manganese, RBC

CPT **83785** Synonyms **RBC Mn** Patient Preparation **None** Special Instructions **None** Specimen Volume **3 mL Heparin whole blood** Minimum Volume **1 mL** Collection Container **Heparin tube** Transport Container **Collection container** Storage & Transport Instructions **Refrigerate. DO NOT FREEZE!** Causes for Rejection **Frozen specimen**

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Manganese, Serum

CPT 83785

Synonyms **Serum Mn** Patient Preparation **None** Special Instructions **None** Specimen Volume **2 mL serum** Minimum Volume **1 mL** Collection Container **Trace element non-additive tube** Transport Container **Metal-free plastic transport tube** Storage & Transport Instructions **Refrigerate or freeze** Causes for Rejection **Hemolysis**

Parasitology, Stool Exam (single specimen)

CPT 87177; 87272 (x2) Profile Includes Stool exam (single specimen); Cryptosporidium Ag; Giardia Ag Patient Preparation No bismuth, barium, laxatives, antidiarrheals and antibiotics for a least one week prior to collection. Specimen Volume Using the collection spoon built into the lid of the Ecofix vial, add enough stool to bring combination of fluid and stool sample to red specimen line on vial. Filling vial to slightly above the red line is allowed. Close cap tightly and shake vigorously. Minimum Volume Same Collection Container Use clean dry container. Do not allow urine or water to come in contact with specimen. Transport Container Para-Pak Ultra Ecofix plastic transport vial Storage & Transport Instructions Room temperature

Causes for Rejection Frozen Specimen

Parasitology, Stool Exam (three specimens)

CPT 87177 (x3); 87272 (x6)

See instructions for Stool Exam (single specimen).

Collect three separate stool specimens, placing each in its own plastic transport tube, with time & date noted on the vial. Collection days should be spread out to approximately every other day.

Progesterone

CPT 84144		
Patient Preparation None		
Special Instructions None		
Specimen Volume 2 mL serum		
Minimum Volume 1 mL		
Collection Container SST or red-stopper tube		
Transport Container Plastic transport tube		
Storage & Transport Instructions Freeze		
Causes for Rejection Gross hemolysis		



Hemoglobin (Hgb) A1c

CPT 83036 Synonyms HbA1c Patient Preparation None Special Instructions Do not freese Specimen Volume 6 ml EDTA whole blood Minimum Volume same Collection Container EDTA tube. Transport Container Collection container Storage and Transport Instructions Store specimens at room temperature or refrigerate. Causes for Rejection Clotted Specimen

Histamine

CPT 83088

Patient Preparation Discontinue antihistamines two days before collection of specimen

Special Instructions None

Specimen Volume Draw until blood stops flowing into tube provided by Bio Center Lab. These tubes will draw blood to just below the black mark on the label. Immediately transfer unclotted blood into 5 mL 10% trichloroacetic acid (TCA). Mix specimen well by vigorously shaking TCA tube after adding blood. Stable one month if kept frozen.

Minimum Volume same

Collection Container Non-additive tube; draw this tube last if other tubes are being collected from the patient; do not allow whole blood to clot

Transport Container Plastic transport tube with preservative. Storage & Transport Instructions Freeze

Causes for Rejection Inadequate specimen added to TCA aliquot; specimen not frozen.

Homocysteine

CPT 82131 Patient Preparation None **Special Instructions** Keep specimen cold and centrifuge within 6 hours. Specimen Volume 1 mL serum Minimum Volume 0.5 mL

Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Indican, Urine

CPT 84999 Patient Preparation None Special Instructions None Specimen Volume 12 mL urine Minimum Volume 5.0 mL Collection Container Clean container Transport Container Plastic transport tube Storage & Transport Instructions Freeze Causes for Rejection Less than 5.0 mL received

Insulin

CPT 83525

Synonyms Free Prostate-Specific Antigen Patient Preparation Fasting Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Freeze Causes for Rejection Gross hemolysis

Lipid Profile

CPT 80061

Profile Includes Cholesterol; triglycerides; high-density lipoprotein (HDL); very low-density lipoprotein (VLDL); low-density lipoprotein (LDL) & risk classification for coronary heart disease (CHD); cholesterol to HDL ratio & risk classification for CHD; LDL to HDL ratio & risk classification for CHD Patient Preparation Fasting Special Instructions None Specimen Volume 4 mL serum Minimum Volume 1.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Lutein

CPT 82491 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum; light protected Minimum Volume 0.2 mL Collection Container SST or red-stopper tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Cytotoxic Food Sensitivity, Basic

CPT 86849

Synonyms Special Prep Cyto Note -- any food allergen not listed in the Standard Lists #1 and #2. See allergens lists at the end of this section. Requires a small sample of the allergen substance to be tested. This must arrive a minimum of two full working days (Monday -Friday) prior to arrival of the patient's blood specimen. Contact BCL for approval of allergen substance that is to be tested against patient's blood. Patient Preparation 12-14 hour fast, (no food, supplements, medications or tobacco products). Bottled water is the only beverage allowed during the fast. Patient should not brush teeth the morning of the collection. **Special Instructions** Monday through Wednesday blood collections only. Blood specimen must be shipped same day as collection. Specimen Volume 10 mL ACD whole blood. Draw-tube must be filled to full draw capacity to insure correct blood to anticoagulant ratio of specimen. Minimum Volume same Collection Container Yellow stopper ACD Solution A tube Transport Container Collection container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Tube needs to be wrapped properly to prevent breakage during transportation. Causes for Rejection Gross hemolysis; frozen specimen; specimen not received by noon within 24 hours of collection Cytotoxic Food Sensitivity, Standard List #1 **CPT** 86849 Synonyms Std Cyto Profile Includes 90 specific food allergens. See allergens lists at the end of this section. Patient Preparation 12-14 hour fast, (no food, supplements, medications or tobacco products). Bottled water is the only beverage allowed during the fast. Patient should not brush teeth the morning of the collection. Special Instructions Monday through Wednesday collections only. Specimen must be shipped same day as collection. Specimen Volume 10 mL ACD whole blood. Draw-tube must be filled to full draw capacity to insure correct blood to anticoagulant ratio of specimen. Minimum Volume same Collection Container Yellow stopper ACD Solution A tube Transport Container Collection Container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Tube needs to be wrapped properly to prevent breakage during transportation.

Synonyms Basic Cyto Profile Includes 24 specific food allergens Patient Preparation 12-14 hour fast, (no food, supplements, medications or tobacco products). Bottled water is the only beverage allowed during the fast. Patient should not brush teeth the morning of the collection. Special Instructions Monday through Wednesday collections only. Specimen must be shipped same day as collection. Specimen Volume 10 mL ACD whole blood. Draw-tube must be filled to full draw capacity to insure correct blood to anticoagulant ratio of specimen. Minimum Volume same Collection Container Yellow stopper ACD Solution A tube Transport Container Collection container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Tube needs to be wrapped properly to prevent breakage during transportation. Causes for Rejection Gross hemolysis; frozen specimen; specimen not received by noon within 24 hours of collection Cytotoxic Food Sensitivity, Individual **CPT** 86849 Synonyms Individual Cyto Note A personalized profile may be created by requesting any combination of food antigens listed in the Standard List #1 and #2 (i.e. may be ordered individually from either list). See allergens lists at the end of this section. Patient Preparation 12-14 hour fast, (no food, supplements, medications or tobacco products). Bottled water is the only beverage allowed during the fast. Patient should not brush teeth the morning of the collection. Special Instructions Monday through Wednesday collections only. Specimen must be shipped same day as collection. Specimen Volume 10 mL ACD whole blood, per 1-90 individual food antigens requested; a second 10 mL ACD tube is required if more food antigens are requested. Draw-tube must be filled to full draw capacity to insure correct blood to anticoagulant ratio of specimen. Minimum Volume same Collection Container Yellow stopper ACD Solutionn A tube Transport Container Collection container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Tube needs to be wrapped properly to prevent breakage during transportation. Causes for Rejection Gross hemolysis; frozen specimen; specimen

Causes for Rejection Gross hemolysis; frozen specimen; specimen not received by noon within 24 hours of collection

RiordanClinic.org/Laboratory Mon - Thurs 8am - 5pm | Fri 9am - 3pm

Cytotoxic Food Sensitivity, Special Preparation CPT 86849

not received by noon within 24 hours of collection



Cytotoxic Food Sensitivity, Standard List #2

CPT 86849

Synonyms Cyto List #2

Profile Includes 90 specific food allergens. See allergens lists at the end of this section.

Patient Preparation 12-14 hour fast, (no food, supplements, medications or tobacco products). Bottled water is the only beverage allowed during the fast. Patient should not brush teeth the morning of the collection.

Special Instructions Monday through Wednesday collections only. Specimen must be shipped same day as collection.

Specimen Volume 10 mL ACD whole blood. Draw-tube must be filled to full draw capacity to insure correct blood to anticoagulant ratio of specimen.

Minimum Volume same

Collection Container Yellow stopper ACD Sol'n A tube. **Transport Container** Collection container

Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Tube needs to be wrapped properly to prevent breakage during transportation.

Causes for Rejection Gross hemolysis; frozen specimen; specimen not received by noon within 24 hours of collection

DHEA-S

CPT 82627 Synonyms Dehydroepiandrosterone Sulfate Patient Preparation None Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Estradiol

CPT 82670 Synonyms E2, Estradiol- 17 beta Patient Preparation None Special Instructions None Specimen Volume 0.8 mL Minimum Volume 0.3 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Cause for Rejection plasma specimen

Fatty Acids, RBC

CPT 82725 (x11) Synonyms EFA, RBC

Profile Includes Omega-6 fatty acid family (linoleic, gamma linolenic, dihomogamma linolenic, arachidonic, total omega-6); Omega-3 fatty acid family (alpha linolenic, eicosapentaenoic, docosahexaenoic, total omega-3 omega-6 to omega-3 balance); Monounsaturated fatty acids (oleic, total monounsaturated); Saturated fatty acid family (palmitic, stearic, total saturated); Unsaturated to Saturated Ratio; Elaitic Patient Preparation None Special Instructions None Specimen Volume 1 mL EDTA whole blood Minimum Volume 0.4 mL Collection Container EDTA tube Transport Container Collection container Storage & Transport Instructions Refrigerate. DO NOT FREEZE! Causes for Rejection Gross hemolysis, frozen specimen

Ferritin

CPT 82728 Patient Preparation None Special Instructions None Specimen Volume 1 mL serum Minimum Volume 0.3 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Folate (Folic Acid)

CPT 82746 Synonyms Folic Acid Patient Preparation None Special Instructions None Specimen Volume 1 mL serum; light protected Minimum Volume 0.2 mL Collection Container SST or red-stopper tube Transport Container Amber plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis

Glucose

CPT 82947 Patient Preparation Fasting recommended Special Instructions Separate serum from cells within 45 minutes of draw Specimen Volume 1 mL serum Minimum Volume 0.5 mL Collection Container SST or red-stopper tube Transport Container Plastic transport tube Storage & Transport Instructions Refrigerate or freeze Causes for Rejection Gross hemolysis



CPT 82955

Synonyms Glucose 6-Phosphate Dehydrogenase

Patient Preparation None

Special Instructions Monday thru. Thursday collections only.

Specimen must be shipped same day as collection. **Specimen Volume** 6 mL EDTA whole blood

Minimum Volume same

Collection Container EDTA tube. Collection tube must be fill full draw capacity to insure correct blood to anticoagulant rat specimen.

Transport Container Collection container

Storage & Transport Instructions Refrigerated specimens ar stable for 48 hours. DO NOT FREEZE! Specimen must be received by no later than noon the next day following collection.

Causes for Rejection Gross hemolysis; clotted specimen; frozen specimen

Glutathione RBC

CPT 82979

Patient Preparation None

Special Instructions Monday through Thursday collections of Specimen must be shipped same day as collection.

Specimen Volume 10 mL ACD-solution A, whole blood and 6 EDTA, whole blood

Minimum Volume same

Collection Containers one Yellow stopper ACD-sol'n A tube one EDTA tube. Each collection tube must be filled to full draw capacity to insure correct blood to anticoagulant ratio of spec **Transport Container** Collection containers

Storage & Transport Instructions Refrigerate. DO NOT FREE Tube needs to be wrapped properly to prevent breakage durin transportation. Specimen must be received by no later than no the next day following collection.

Causes for Rejection Moderate or excessive hemolysis; cloth specimen; frozen specimen

Glycemic Profile

CPT 82947, 83036

Profile Includes Glucose; Hemoglobin A1c; Estimated Average Glucose.

Patient Preparation Fasting recommended

Special Instructions Separate serum from cells within 45 min of draw.

Specimen Volume 1 mL serum, 6 mL whole blood Minimum Volume 0.5 mL Serum, 1 mL whole blood

Collection Container SST tube, EDTA tube

Transport Container Plastic transport tube for serum, Collect container for whole blood

Storage & Transport Instructions Refrigerate whole blood, freeze serum

Causes for Rejection Gross hemolysis, clotted whole blood spe

316.682.3100 | 800.447.7276 3100 N. Hillside | Wichita, KS 67219 **RiordanClinic.org/Laboratory** Mon - Thurs 8am - 5pm | Fri 9am - 3pm

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D)	Hair Tissue Analysis CPT P2031 (Medicare), 82310, 82495, 82525, 83540, 84311, 83735, 83785, 84311, 84255, 84630, 82108, 82175, 82300, 83655, 83825 Profile Includes 11 Hair Nutrient Minerals ⊠Calcium (Ca); Chromium
y.	 (Cr); Copper (Cu); Iron (Fe); Potassium (K); Magnesium (Mg); Manganese (Mn); Sodium (Na); Selenium (Se); Zinc (Zn); log (Na x Zn) / Cu) is calculated⊠; 5 Hair Toxic Minerals ⊠Aluminum (Al); Arsenic (As); Cadmium (Cd); Lead (Pb); Mercury (Hg)⊠
illed to	Patient Preparation None
atio of	Special Instructions Obtain hair samples from several locations on
are	the lower portion of the back of the patient's head (from the area that includes the nape of neck and up to as high as the tops of the ears). Sample should include only hair cut from next to the scalp & which
ceived	is two inches or less in length (measured from the scalp end of the hair sample). If hair length is greater than two inches, trim hair sample to two inches from scalp end & dispose of excess length of hair. The use of "thinning shears" is recommended for use on patients with hair lengths of two inches or less. For those patients with longer hair lengths, cut several strands of hairs at the scalp by using standard trimming scissors & then trim hair sample to proper length, discarding
	the excess. Collection kit is available upon request.
only.	Specimen Volume 1 gram of hair
. .	Minimum Volume 0.5 grams
6 mL	Collection Container Plastic Ziploc bag
	Transport Container Plastic Ziploc bag
	Storage & Transport Instructions Room temperature
e and	Causes for Rejection Inadequate volume; excess hair length not
IW	trimmed & discarded
cimens.	Hemoccult-ICT (3 specimens)
EZE!	CPT 82270 (x3) Synonyms Fecal Occult Blood
ing 100n	Patient Preparation Do not collect samples three days before/
tted	after or during your menstrual period, or while you have bleeding hemorrhoids or blood in your urine, open cut on hands, or have
	strained during bowel movement.
	Special Instructions Collect samples from 3 bowel movements
	approximately every other day.
	Collection card should be returned to BCL within 3 days of last
age	specimen collection.
190	Specimen Volume samples of 3 different stools, placed onto
	collection card.
inutes	Minimum Volume same
	Collection Container Do not open windows of collection card
	until ready to transfer fresh stool specimen to the card. Use clean
	disposable container to collect stool. Use clean wooden specimen
	sticks to transfer small amount of each stool specimen to the
ction	specimen card. Date & time of each specimen must be noted on the
	front of the card.
	Transport Container Hemoccult II specimen card. Place card in
	sealed Ziploc bag for transport.
ecimen	Storage & Transport Instructions Store card at room temperature. Protect slides from heat & volatile chemicals.

